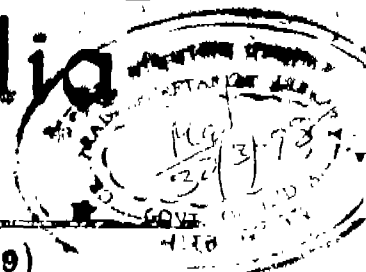




# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



सं० 8] नई दिल्ली, शनिवार, फरवरी 21, 1998 (फाल्गुन 2, 1919)  
No. 8] NEW DELHI, SATURDAY, FEBRUARY 21, 1998 (PHALGUNA 2, 1919)

इस भाग में भिन्न पृष्ठ छेड़्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
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Calcutta, the 14th February, 1998

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1-467 GI/97

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Telegraphic address "PATENTOFIS"

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O.  
Building, 5th, 6th and 7th  
Floor, 234/4, Acharya Jagadish  
Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS"

All applications, notices, statements or other documents, or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate offices of the Patent Office.

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## पेटेंट कार्यालय

एकस्य तथा अधिकस्य

कलकत्ता, दिनांक 21 फरवरी, 1998

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, विल्ली एवं चेन्नई में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टांडी इस्टेट,  
तीसरा तल, लोअर पार्क (प.),  
मुम्बई-400013 ।

गुजरात, महाराष्ट्र, मध्य प्रदेश  
तथा गोआ राज्य क्षेत्र एवं संघ  
शासित क्षेत्र, दमन तथा दीव एवं  
नागर और नगर द्वीपी ।

तार पता - "पेटेंटोफिस"

पेटेंट कार्यालय शाखा  
प्लॉट नं० 401 से 405, तीसरा तल  
आर्याभट्टिका हाउस भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू  
तथा कश्मीर, पंजाब, राजस्थान,  
उत्तर प्रदेश तथा दिल्ली राज्य  
क्षेत्र एवं संघ शासित क्षेत्र चंडीगढ़ ।

तार पता - "पेटेंटोफिस"

पेटेंट कार्यालय शाखा,  
ब्लॉक "सी" (सी-4, ए),  
तीसरा तल, राजाजी भवन,  
बसन्त नगर, चेन्नई-600090 ।

बिहार प्रदेश, कर्नाटक, केरल, तमिलनाडु  
तथा पाण्डिचेरी राज्य क्षेत्र एवं  
संघ शासित क्षेत्र, लक्षद्वीप, मिनिक्काय  
तथा एमिनिदिदिब द्वीप ।

तार पता - "पेटेंटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय),  
मिजाम पैलेस, द्वितीय बहुराष्ट्रीय कार्यालय  
भवन, 5, 6 तथा 7वां तल,  
224/4, आचार्य जगदीश बोस मार्ग,  
कलकत्ता-700 020 ।

भारत का जवर्षीय क्षेत्र ।

तार पता - "पेटेंटोफिस"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अपेक्षित सभी बोलचाल-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के कोषल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शर्क : शर्कों की अदायगी या तो भवक की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक की भूमिगत योग्य धमाका अथवा  
डाक जाका या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान  
के अनुसूचित बैंक से नियंत्रक की भूमिगत योग्य बैंक डाफ्ट अथवा  
बैंक द्वारा की जा सकती है ।

## CHANGE OF ADDRESS

The Address of service in respect of Shri Salim Ahmed  
Shaikh and Shri Bharat Shantilal Shah, Patent attorneys is  
changed as follows :—

Address :

Shri Bharat S. Shah  
C/o Bharat Shah & Co,  
Advocates and Solicitors,  
401, GOD'S GIFT,  
St. Francis Road, Ville Parle (West)  
Mumbai-400 036.

Shri Salim Ahmed Shaikh,  
Dudhwala House,  
292, Bellasis Road,  
Between Hotel Salil and S. T. Depot,  
Mumbai Central, Mumbai-400 008.

Sub.—Name has been deleted from the Register of Patent  
Agents under rule 101 (1) (d)

1. Shri R. K. Anand
2. Shri M. D. Bhate
3. Shri A. K. Dutt
4. Shri S. K. Roychoudhuri
5. Shri R. Murlidharan
6. Ishaq Shamshuddin Parkar
7. Shri Ajit Kumar Pandey
8. Shri Murlidhar Bala Subramaniam
9. Ms. Rachna Bakhra.

## REGISTRATION OF PATENT AGENT

Sub.—List of candidates who have passed the Patent Agent  
Examination under sec. 126(1) (c) (ii) held on 27th  
and 28th of January, 1997.

1. Shri K. M. Rao
2. Shri Sekhar Ranjan Gupta
3. Shri R. N. Sinha

4. Smt. Indira Banerjee
5. Smt. Sudipta Banerjee
6. Shri Braja Dulal Basu
7. Shri Arun Kumar Dasgupta
8. Shri Md. Islam
9. Shri Soumen Mukherjee
10. Shri Subhasish Ghosh
11. Dr. N. J. De Souza
12. Dr. V. Sarvamangla
13. Ms. Richa Mehta.

## ALTERATION OF DATE

180570 (847/Del/91)	filed on 13-9-1991 Ante dated to 6-7-1988
180576 (1265/Del/91)	filed on 23-12-91 Ante dated to 18-07-88
180577 (163/Del/92)	filed on 27-2-1992 *Ante dated to 28-10-1988
180579 (443/Del/92)	filed on 20-5-1992 Ante dated to 27-3-1990
180580 (319/Del/92)	filed on 16-5-1992 Ante dated to 12-5-1989

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

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## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्णय की तिथि से चार (4) महीने या अधिक, इसकी तिथि की तिथि से चार (4) महीने की अवधि की समाप्ति के पूर्व

पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र की उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित दस्तावेज उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संबंध में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अन्तर्गत हैं।”

रूपांकन (चित्र आरेखों) की फोटो प्रतियां, यदि कोई हों, के साथ विनिर्देशों की अंकित अथवा फोटो प्रतियां की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिससे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 35 F

180561

Int. Cl. : A 61 K 33/26

A PROCESS FOR THE PREPARATION OF DULL-WHITE FERRIC PHOSPHATE USEFUL FOR FORTIFICATION OF COMMON SALT.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : RASHMIKANT ANSUKHLAL BUCH, MAHESHKUMAR JAYANTILAL MEHTA,

Application for Patent No. 706/Del/91 filed on date 2-8-91.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch New Delhi-110005.

## 4 Claims

A process for the preparation of dull white ferric phosphate useful for the fortification of common salt which comprises :

- (a) Preparing solutions of sodium dihydrogen phosphate and ferric sulphate in water;
- (b) Mixing the two solutions in stoichiometric proportions at ambient temperature;
- (c) Adjusting pH between 1.8 to 2.5 by conventional methods; then
- (d) Filtering and washing the dull white ferric phosphate formed with distilled water till it is free from sulphate;
- (e) Drying by heating at a temperature in the range of 70-110°C.

(Compl. Spec. 7 pages

Drgs. Nil sheets).

Ind. Cl. : 39-o

180562

Int. Cl. : CO 1B, 33/02

**AN IMPROVED PROCESS FOR PRODUCTION OF METALLURGICAL SILICON METAL FROM ALUMINO SILICATE MATERIALS.**

Applicants : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) HEREBY DECLARE :—

Inventors :

- (1) DR. JOSE JAMES,
- (2) DR. CHAMARTHY BUTCHI RAJU AND KONDURI SRINIVAS

Application for Patent No. 709/Del/91 filed on 2-8-91.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

**5 Claims**

An improved process for the production of a mixture of metallurgical grade silicon metal, with aluminium nitride and alumina from aluminosilicate, which comprises of (i) powdering the naturally occurring aluminosilicate such as fly ash, clay, pyrophyllite (ii) mixing the said powdered aluminosilicate with fine powder of Aluminium metal, (iii) pelletising the said mixture by known methods such as have in described (iv) heating the said pellets in a reducing and nitriding atmosphere at a temperature in the range of 700°C for a period ranging from 30 minutes to 8 hours, and if desired purifying of silicon metal by conventional methods, such as have in described.

(Compl. Specn. 9 pages

Drgn. Nil)

Ind. Cl. : 14 D

180563

Int. Cl. : G 21 H 1/00

**AN ACTIVATED CELL.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors :

DEVENDRA PRAKASH BHATT,  
RAMASAMY UDHAYAN,

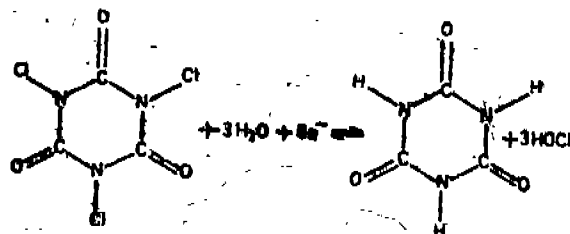
Application for Patent No. 749/Del/91 filed on date 14-8-91.

Complete left after provisional specification on 21-10-91.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

**7 Claims**

An activated cell, which comprises a cathode consisting of trichloroisocyanuric acid, acetylene black and carboxymethylcellulose having a current matrix selected from Cu, Ni, Ni plated mild steel and titanium, a metallic anode and cathode being separated by porous material like nylon, polyester or special synthetic paper and the electrolyte being magnesium perchlorate or mixture of ammonium chloride and zinc chloride.



(Provisional Specn. 9 pages

(Compl. Specn. 11 Pages

Drgns. Nil.)

Drgn. 1 Sheet)

Ind. Cl. : 32 F (29)-

180564

Int. Cl. : C 07 C 93/233

**PROCESS FOR THE PREPARATION OF HYDROXYAMIDES.**

Applicant : ROHM AND HAAS COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, USA, OF INDEPENDENCE MALL WEST, PHILADELPHIA, PENNSYLVANIA 19105, USA.

Inventor :

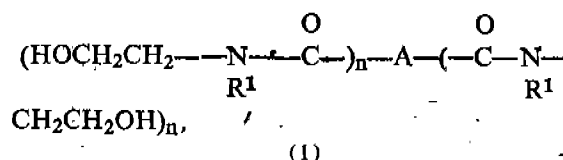
FRANCIS WILLIAM SCHLAFFER,

Application for patent No. 763/Del/91 filed on date 21-8-91.

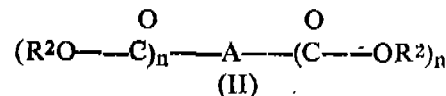
Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

**10 Claims**

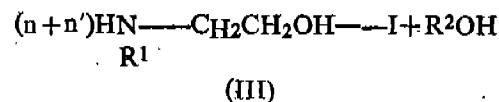
A Process for preparing an hydroxy amide compound of the formula :



wherein A is a bond, a polyvalent organic radical or when n' is zero, A may be a hydrogen or a monovalent organic radical wherein the polyvalent or monovalent organic radical is derived from a saturated or unsaturated (C<sub>1</sub>-C<sub>6</sub>) alkyl, aryl, carboxy lower alkenyl, lower alkoxy carbonyl lower alkenyl, or tri-lower alkyleneamino; R<sup>1</sup> is hydrogen, lower alkyl or hydroxy lower alkyl; n is an integer of 1 to 10; and n' is an integer of 0 to 2; which comprises treating in the absence of a solvent a compound of the formula :



where A, n and n' are as defined above and R<sup>2</sup> is lower alkyl with a compound of the formula :



wherein R<sup>1</sup>, R<sup>2</sup>, n, and n' are as defined above at a temperature in the range of from ambient up to about 200°C optionally in the presence of a catalyst and controlling said temperature to cause the hydroxyamide compound (I) to crystallize to from a slurry and maintaining the slurry by temperature control and agitation while removing byproduct R<sup>2</sup>oh for from 0.25 to 12 hours.

(Compl. Specn. 17 pages

Drgn. Nil)

Ind. Cl. : 39 III o

180565

Int. Cl. : Co 4 B 14/00

**A PROCESS FOR THE PREPARATION OF NOVEL CRYSTALLINE POROUS METALLOSTLICATE MOLECULAR SIEVES.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Inventor : RAJIVE KUMAR

KORANDLA RAMESH REDDY

PAUL RATNASMY

Application for patent No. 766/Del/91 filed on date 22-8-91.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

## 10 Claims

A process for the preparation of novel crystalline molecular sieves, characterized by the x-ray diffraction pattern given in Table-1 and chemical composition in term of mole ratios of oxides in the anhydrous state by the formula  $axa : bmx : cso_2$ , where X in a mixture of monovalent cation selected from alkali metal ammonium and hydrogen, M is Selected from Al, B, Fe, Ga, or Cr or mixtures thereof and  $a=0.0$  to  $1.0$ ,  $b=0.0$  to  $1.0$  and  $c=20$  or above which comprises (1) mixing a source of silicon and sources of Al, Fe, Ga or Boron or mixtures thereof and alkali metal, with an organic compound containing nitrogen (2) autoclaving the resultant gel by heating at a temperature in the range of  $100-200^\circ\text{C}$  under static or rotative conditions (3) quenching the resultant crystalline material in cold water, filtering and washing with deionised water thoroughly, (4) drying at a temperature in the range of  $80-150^\circ\text{C}$ , for a period ranging between 1-16 hours (5) calcining in the temperature range of  $400-550^\circ\text{C}$  for a period of 12-24 hours to obtain a composite material having predominantly alkali metal as the monovalent cation (6) heating the resultant composite material with an aqueous solution containing ammonium ion by ion exchange process to produce a catalyst composite having predominantly ammonium as the monovalent cation and (7) calcining the resultant catalyst composite by heating at a temperature in the range of  $400-500^\circ\text{C}$ , for a period in the range of 8-24 hours, to obtain the catalyst composite material having predominantly hydrogen as the monovalent cation.

(Compl. Specn. 16 pages;

Drngn. Sheets Nil)

Ind. Cl. : 32 F (29) 8 F (2b)

180566

Int. Cl. : C 07 C, 121/50, C 07 D, 293/90

AN IMPROVED PROCESS FOR THE PREPARATION OF CONDENSATION PRODUCT OF METHYLENE COMPOUNDS CONTAINING CARBONYL GROUP.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAJ MARG, NEW DELHI-110001.

Inventors :

REVANNURU VENKATACHALIAH VENKATARATNAM,

PAMULAPARTI SHANTHAN RAO,

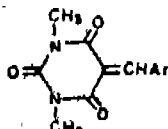
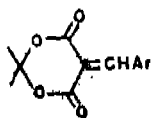
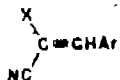
UDAY TRIAMBAK BHALE RAO

Application for patent No. 769/Del/91 filed on date 22-8-91.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

## 4 Claims

An improved process for the preparation of condensation products of methylene compound containing carbonyl group which comprises reacting an appropriate compound containing active methylene group such as malononitrile, cyanoacetamide, ethylcyanoacetate, 2 (1H-benzimidazolyl)-acetonitrile, mel drums acid and 1,3 dimethyl barbituric acid with an aromatic aldehyde having formula  $\text{ArCHO}$  where Ar represents phenyl, 4 methoxy phenyl, 4-methyl phenyl, 4-chloro phenyl, 4-hydroxy-3-methoxy phenyl, cinnamal and furyl group in the presence of anhydrous zincchloride at a temperature in the range of  $50$  to  $150^\circ\text{C}$  and recovering condensation product so obtained by known method such as herein described.



(Compl. Specn. 11 pages

Drngn. Sheets-1)

Ind. Cl. : 32 E

180567

Int. Cl. : C 08 F 23/00, 23/04, 23/08, 65/00, 65/02

A METHOD OF PRODUCING A THERMOPLASTIC POLYMERIC COMPOSITION

Applicant : ALLIDE-SIGNAL INC., CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATE OF AMERICA, HAVING A PLACE OF BUSINESS AT COLUMBIA ROAD, AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTRY, NEW JERSEY, UNITED STATE OF AMERICA.

Inventors :

MURALI KRISHNA AKKAPEDDI

ALAN CURTIS BROWN,

BRUCE VANBUSKIRK

Kind of Application : Complete

Application for patent No. 801/Del/91 filed on 30-8-1991 Ante dated to 21-4-1988

Divisional to patent Application No. 343/Del/88 filed on 21-4-1988.

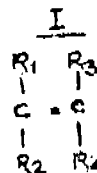
Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

## 8 Claims

A method of producing a thermoplastic polymeric composition, said method comprises reacting in a manner such as hereinbefore described;

(a) from 70 to 99.99% by weight polyphenylene oxide; and

(b) from 0.01 to 30% by weight of a substituted olefin having formula I



of the accompanying drawing wherein one to two or  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  individually are selected from a reactive group consisting of epoxy group, oxazoline, oxazolone, oxazine, oxazinone, isocyanate carbamate, and mixtures and derivatives thereof and wherein the remaining two to three of  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  individually are H or a hydrocarbon radical of from 1 to 20 carbon atoms and blending 5 to 95% by weight of total composition said reaction product with 5 to 95% by weight of total composition of a thermoplastic polymer such as herein described which is reactive with the reactive group of the reaction product and optionally 5 to 50% by weight of total composition of a functionalized ethylene propylene rubber of the kind described hereinbefore.

(Compl. Specn. 34 pages

Drngn. 2 Sheet)

Ind. Cl. : 32 C 55 E

180568

Int. Cl. : A 61 K 37/48, C 12 N 9/28

AN IMPROVED PROCESS FOR THE PRODUCTION OF THERMOSTABLE ALPHA-AMYLASE.

Applicant : THAPAR CORPORATE RESEARCH & DEVELOPMENT CENTRE, POST BOX NO. 68, PATIALA-147001, INDIA.

## Inventors :

PROMOD K. BAJPAI, INDIA AND PRATIMA BAJPAI, INDIA

Application for patent No. 804/Del/91 filed on date 3-9-91.

Appropriate office for opposition proceedings (Rule 4 Patent Rules 1972) Patent Office Branch New Delhi-110005.

## 8 Claims

An improved process for the production of thermostable alpha-amylase comprising inoculating *Bacillus* having characteristics of the kind as herein described with a liquid medium having 1 to 10% w/v of carbon source selected from lactose with or without starch hydrolasate and 1 to 5% w/v of nitrogen source and known nutrients so as to have a pH of 6.5 to 7.5 subjecting said inoculated liquid medium to the step of fermentation with fermentation medium having 1 to 10% w/v of lactose under agitation at a temperature of 35°C for a period of 10-15 hours under aeration conditions, receiving alpha-amylase solutions from said fermented medium by known method.

(Com. Specn. 19 pages

Drgn. Sheet Nil)

Ind. Cl. : 102 D; 63 I

180369

Int. Cl.<sup>4</sup> : H 02 K 26/00; H 02 K 57/00

## ELECTRO-HYDRO-MECHANICAL STEPPING MOTOR.

Applicants : NGO-SY-LOC, DEPTT. OF MECH. ENGG., I.I.T., KANPUR, VIETNAMESE NATIONAL, DR. B. SAHAY, PROF. OF MECH. ENGG., I.I.T., KANPUR, INDIAN NATIONAL, DR. S. K. CHOUDHURY, ASSTT. PROF. OF MECH. ENGG., I.I.T., KANPUR INDIAN NATIONAL AND DR. M. P. KAPOOR, OFF. DIRECTOR, I.I.T., KANPUR, INDIAN NATIONAL.

## Inventors :

- (1) NGO-SY-LOC,
- (2) B. SAHAY,
- (3) S. K. CHOUDHARY AND
- (4) M. P. KAPOOR.

Kind of Application : Application filed with Complete specification.

Application for Patent No. 845/Del/91 filed on September 11, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

An Electro-Hydro-Mechanical stepping motor consisting of a Rotating unit and a Stationary unit, the Rotating unit consists of a rotating gear and a nutating gear, the rotating gear is keyed to an output shaft whereas the nutating gear wobbles around a spherical bearing mounted on the output shaft, the Stationary unit consists of a cylinder block which houses an axial circular array of N numbers of cylinders equally spaced around the central axis, the plunger type pistons move axially inside the cylinders and press on the back side of the nutating gear forcing the nutating gear to mesh with the rotating gear, the contact between the piston heads and the nutating gear is maintained either by a spring and/or a constant positive exhaust pressure, the output shaft rests on two taper roller bearings which are mounted on the cylinder block and its lid, a pilot spool which is rotatable in stepwise manner inside a valve body by a DC stepping motor and admits fluid at a high pressure to a group of pressurized cylinders which are not the same for each revolution but alternately change during successive revolution as the nutating gear rotates, the remaining number of cylinders will discharge to the tank while the other cylinders are being pressurized during any particular rotation.

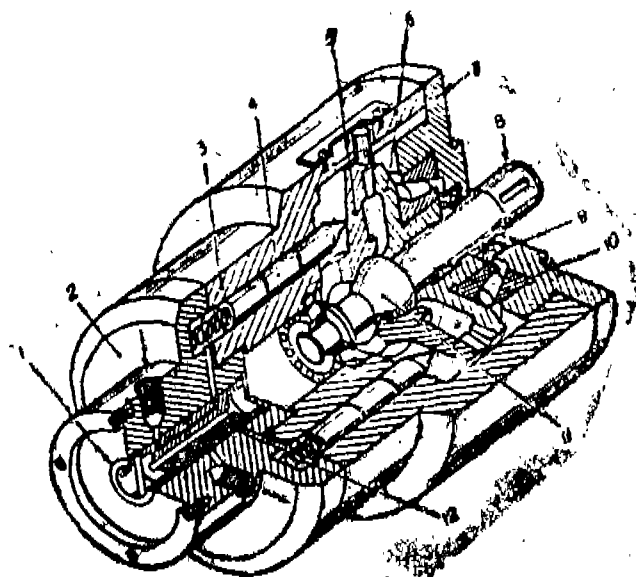


Figure-1

(Complete Specification 8 Pages;; Drawings 3 Sheets.)

Ind. Cl. : 120B 5

180370

Int. Cl.<sup>4</sup> : C10M 125/00

## A PROCESS FOR PREPARING A SPIN FIBRE LUBRICANT ADDITIVE.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO.

## Inventors :

- (1) RICHARD YODICE,
- (2) GREGORY ALAN LENTZ.

Application for Patent Application No. 847/Del/91 filed on 13-7-1991.

Ante dated to 6-7-1988.

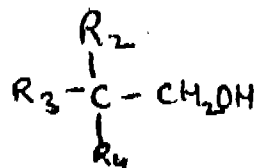
Divisional to Patent Application No. 579/Del/88 filed on 6-7-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 17 Claims

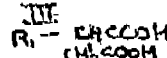
A process for preparing a spin fibre lubricant additive which comprises reacting

(A) a neoalcohol having the structure



wherein  $R_1$ ,  $R_3$  and  $R_4$  are independently straight chain hydrocarbyl groups, branched chain hydrocarbyl groups or mixtures thereof with

(B) an acid or anhydride selected from the group consisting of maleic acid, maleic anhydride, phthalic anhydride, aryl dicarboxylic acids, or a compound of formula II, III or IV



IV



HOOC (CH<sub>2</sub>)<sub>n</sub> COOH and dimerized acids of unsaturated monocarboxylic acids that contain at least 12 carbon atoms wherein R<sub>1</sub> is hydrocarbonyl group selected from the group consisting of alkyl akenyl, aryl, alkaryl and aralkyl and mixtures therein, and wherein n is from 0 to 20.

(Complete Specification 23 Pages; Drawings Sheet 1)

Ind. Cl. : 55 E4

180571

**Int. Cl.<sup>4</sup> : A 61 K 31/00**

**A METHOD OF PREPARING A COMPOSITION FOR  
PREPARATION OF EPHERIDINE BASE IN VAPOUR  
FORM.**

**Applicant : THE PROCTER & GAMBLE COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE PROCTER & GAMBLE PLAZA CINCINNATI, STATE OF OHIO 45202, USA.**

**Inventor : NIKHILESH NIHALA SINGH.**

Application for Patent No. 938/Del/91 filed on date 26-9-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110002.

## 7 Claims

A method of preparing a composition for preparation of ephedrine base in vapor form comprises heating the aromatic compound to the melting temperature adding to the said compound ephedrine base and alkyl salicylate and cooling the said composition to ambient temperature wherein the weight percentage of said composition are :

- (1) from 1% to 99% by weight epheridine base,
- (2) from 1% to 99% by weight C<sub>1</sub>-C<sub>8</sub> alkyl salicylate,
- (3) from 2% to 93% more preferable from 25% to 85% by weight aromatic compound.

(Complete Specification in 20 Pages: Drawings Sheets Nil)

**Ind. Cl. : 15 D**

180572

**Int. Cl. : F16C 33/46**

A PLASTICS WEAR ELEMENT SUCH AS A BEARING CAGE COMPOSED OF A PLASTICS RESIN AND A METHOD FOR PRODUCING SAID PLASTICS WEAR ELEMENT

Applicant : THE TORRINGTON COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE. UNITED STATES OF AMERICA, OF 59 FIELD STREET TORRINGTON, CONNECTICUT 06790. UNITED STATES OF AMERICA.

**Inventors :**

- (1) ROBERT EDWARD FURST.  
(2) KEITH LAVERN SEIFERT.

Application for Patent No. 1090/D/91 filed on date 13-11-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110003.

## 9 Claims

A plastic wear element such as bearing cage composed of a plastics resin characterized by a body portion composed of said plastic resin in a crystalline state; and an outer layer

composed of said plastics resin in an amorphous state overlying said crystalline body portion, said amorphous outer layer providing a wear surface for improving the ability of said plastics wear element to withstand friction.

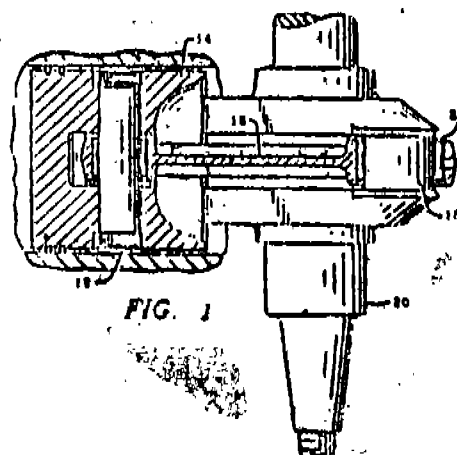


FIG. 1

(Complete Specification 14 Pages;

Drawing 2 Sheets.)

Ind. Cl. : 24DE

**180573**

Int. Cl. : B61K 13/00

## HANDBRAKE FOR SINGLE-CYLINDER TRUCK-MOUNTED RAILWAY CAR BRAKE

Applicant : WESTINGHOUSE AIR BRAKE COMPANY,  
OF AIR BRAKE AVENUE, WILMERDING, PENNSYL-  
VANIA 15148, UNITED STATES OF AMERICA.

**Inventors :**

- (1) WAJIB KANJO,  
(2) MARK STANLEY KRAMPITZ.

Application for Patent No. 1093/D/91 filed on date 14-11-91

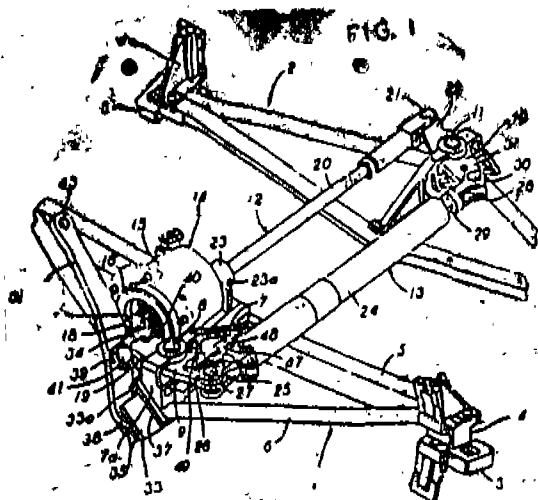
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9- Claims

A handbrake apparatus for a railway vehicle comprising :  
(a) first and second spaced-apart brake beams (1, 2);

- (b) first and second transfer levers (9, 10) pivotally connected at a point intermediate the ends thereof to a respective one of said first and second brake beams (1, 2);
- (c) first and second force-transmitting means (12, 13) interconnected between corresponding arms of said first and second transfer levers (9, 10);
- (d) said first force-transmitting means (12) having brake actuator means (14, 15, 16) operable in response to the supply of fluid pressure thereto for increasing the length of said first force-transmitting means, (12) to accordingly increase the spaced-apart distance between said first and second brake beams (1, 2);
- (e) a transfer link (34) connected to said first transfer lever (9) so as to be arcuately moveable therewith in a plane parallel to the plane of rotation of said first transfer lever (9);
- (f) a bearing surface (37) on said first brake beams characterised by and:

- (g) an actuating lever (32) having a pivotal connection (39) at a location (38) intermediate the ends thereof with said transfer link, (34) one end of said actuating lever (32) being adapted to receive a handbrake force and the other end of said actuating lever (32) being freely engageable with said bearing surface (37) to provide a sliding fulcrum point (38) about which said actuating lever (32) is rotatable; said other end of said actuating lever (32) comprises first and second arcuate segments (44, 45) spaced different distances from said pivotal connection of said first arcuate segment (44) being engageable with said about which said actuating lever (32) is rotatable in a first range of rotation thereof and said second arcuate segment (45) being engageable with said bearing surface actuating lever (37) to provide said fulcrum point (38) about which said actuating lever (32) is rotatable in a second range of arcuate segment (44) establishes a first lever ratio of said actuating lever (32) and said fulcrum (38) provided by said second arcuate segment (45) establishes a second lever of ratio said first lever ratio.



(Complete Specification 22 Pages; Drawing 5 Sheets)

Ind. Cl. : 128G

180574

Int. Cl. : A61B 5/14

#### BIOLOGICAL FLUID PROCESSING APPARATUS.

Applicant : PALL CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 2200 NORTHERN BOULEVARD, EAST HILLS, NEW YORK 11548, UNITED STATES OF AMERICA, FORMERLY OF 30 SEA CLIFF AVENUE, GLEN COVE, NEW YORK 11542, UNITED STATES OF AMERICA.

Inventors :

- (1) DAVID BORIS PALL,
- (2) THOMAS CHARLES GSELL,
- (3) VLADO IVAN MATKOVICH,
- (4) THOMAS BORMANN.

Application for Patent No. 1124/Del/91 filed on date 18-11-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

27 Claims

A biological fluid processing apparatus (10) comprising :

a first centrifugible container (11) for holding the biological fluid to be processed;

at least a second (41) and a third (18) container each connected in respective fluid communication with said first container (11);

a first porous filter assembly (12, 13) composed of one of more media selected from a leukocyte depletion (13) medium, a red cell barrier medium (12) and a combined leukocyte depletion-cum-red cell barrier (12, 13) medium interposed between said first container (11) and said second container (41), said first porous filter (12, 13) assembly permitting platelets to pass through it while selectively blocking the passage of red blood cells or depleting leucocytes or both; and

a second porous filter assembly (17) interposed between said first container (11) and said third container, (18) said second porous filter assembly (17) comprising a leukocyte depletion (17) medium.

(Complete Specification 81 Pages; Drawing 4 Sheets)

Ind. Cl. : 206 E

180575

Int. Cl. : H04B 1/00

#### COMMUNICATION SYSTEM FOR A WIDE AREA SITE AND A PLURALITY OF LOCAL SITES.

Applicant : MOTOROLA INC., A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1303 EAST ALGONQUIN ROAD, SCHAUMBURG, ILLINOIS 60196, UNITED STATES OF AMERICA.

Inventor :

- (1) KENNETH JAMES CRISLER,
- (2) BRADLEY MICHAEL HIBEN,
- (3) ANTHONY PETRICK VAN DEN HEUVEL.

Application for Patent No. 1131/D/91 filed on date 19-11-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A communication system (100) for providing communication between communication units operating in a wide area site and a plurality of local sites which comprises at least one radio frequency channel connecting said wide area site (W) and said plurality of local sites (L1-L6), said radio frequency channel being divided into at least one time slot and a plurality of sub slots, each said sub slot having substantially shorter duration than said time slot, each said sub slot being assigned to a local site (L1-L2), a plurality of local site communication units (103) operating within said local sites, a plurality of local site communication means (102) communicating with at least one of said local site communication unit (103), a main site communication means (101) communicating with said plurality of wide area site communication units (104) communicating with said site communication means (101) during at least one of said time slots.

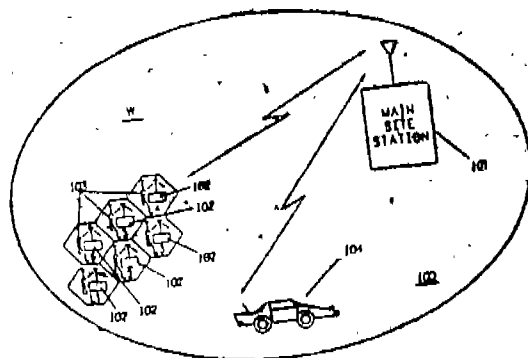


Fig. 1

(Complete Specification 25 Pages; Drawing 9 Sheets)



Ind. Cl. : 62 E

180576

Int. Cl.<sup>4</sup> : D 06 F 21/06 & 37/12

A SINGLE SHAFT AGITATE AND SPIN DRIVE ROTATIONAL DELAY MECHANISM FOR AN AUTOMATIC WASHER.

Applicant : WHIRLPOOL CORPORATION, A DELAWARE CORPORATION, OF 2000 M-61 BENTON HARBOR, MICHIGAN 49022, USA.

Inventor : WILLIAM LESTER KENNEDY.

Application for Patent No. 1265/Del/91 filed on date 23-12-91.

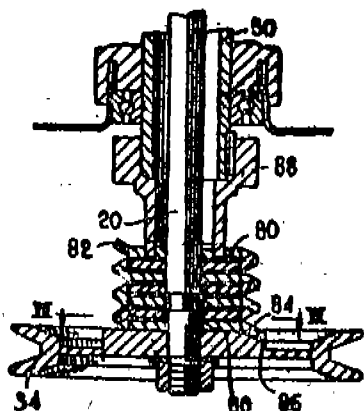
Divisional to Patent Application No. 611/Del/88 filed on 18-07-88.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A single shaft agitate and spin drive rotational delay mechanism for an automatic washer having a vertical axis agitator driven in an oscillatory manner by a motor during an agitate portion of wash cycle, and a wash basket mounted concentrically around said agitator to spin with said agitator during a dehydration portion of a wash cycle provided with a lost motion mechanism to absorb a predetermined amount of rotational movement of said agitator shaft prior to transmitting additional rotational movement to said basket characterised in that the said lost motion mechanism comprises a plurality of disc stacked on said agitator shaft, a lowermost of said discs being drivingly connected to said agitator shaft and an uppermost of said disc being drivingly connected to said basket, said discs having engagement means formed thereon to provide positive driving engagement between each of discs upon sufficient relative rotational movement between said discs.

FIG. 6



(Complete Specification 15 Pages; Drawings 3 Sheets)

Ind. Cl. : 35 C+D

180577

Int. Cl.<sup>4</sup> : C23C 10/34

A DRY COMPOSITION FOR USE IN MAKING UP CEMENTITIOUS MATERIAL.

Applicant : EOSROC INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285 LONG ARCE, NECHELLS, BIRMINGHAM B 7 5 JR, ENGLAND.

Inventor : ROBERT FRANKLYN VILES.

Application for Patent No. 163/Del/92 filed on 27-2-92.

Convention date 29-10-1987/87.25385/UK, Ante dated to 28-10-1988.

2-467GI/97

Divisional to Patent Application No. 935/Del/88 filed on 28-10-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A dry composition for use in making up cementitious material the dry composition comprising high alumina cement, beta anhydrite aluminium sulphate in weight concentration of 1% to 12.5% relative to the high alumina cement, a source of free lime (as herein defined) in a concentration of 3% to 9% by weight of the high alumina cement to cause the formation of enttringite on hydration and at least 10% by weight of a filler such as herein described.

(Complete Specification 12 Pages; Drawing Sheet Nil)

Ind. Cl. : 32F (2C)

180578

Int. Cl.<sup>4</sup> : C07C 121/18

A PROCESS FOR THE MANUFACTURE OF ACETONITRILE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI).

Inventors :

- (1) CHANGARAMPONNATH GOPINATHAN,
- (2) SARADA GOPINATHAN,
- (3) AMBADAS MADHAVRAO HUNDEKAR,
- (4) SHARAD KESHAV PANDIT,
- (5) JOSEPH KURUVILLA.

Application for Patent No. 279/Del/92 filed on 30-3-1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A Process for the manufacture of acetonitrile which comprises reacting acetic acid of its derivatives with ammonia of its derivatives over a known solid acid catalyst of the kind as herein described at a temperature in the range of 250°—400°C and separating the acetonitrile from the products of the reaction by conventional methods.

(Complete Specification 12 Pages; Drawing Sheet Nil)

Ind. Cl. : 32 F (2b)

180579

Int. Cl.<sup>4</sup> : CO 7D, 209/04

"PROCESS FOR PREPARING A NOVEL-3-SUBSTITUTED-2-OXINDOLE DERIVATIVES"

Applicant : PFIZER INC., a corporation organised under the laws of the State of Delaware, United States of America of 235 East 42nd Street, New York, United States of America.

Inventors : FREDERICK JACOB EHRGOTT,  
CARL JOSEPH GODDARD,  
GARY RICHARD SCHULTE,

Application for Patent No. 443/DEL/92—filed on 20-5-1992 Ante dated-27-3-1990.



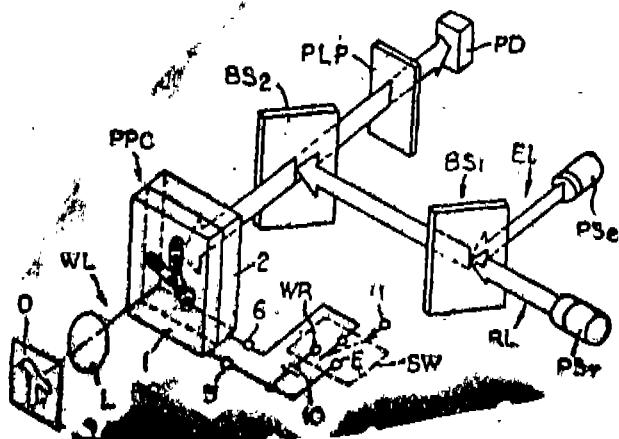
(PPCI), said photo-photo conversion element (PPCI) comprising two transparent electrodes (Et1 & Et2) with at least one photo-conductive layer (PCL), dielectric mirror (DM-LA) and photo modulating layer (PML) interposed between said two transparent electrodes (Et1 & Et2);

first reading light means (RL1) (PS 1, L2, BS 11) located with respect to said first photo-photo conversion element (PPCI) for striking a first reading light (RL1) of wide cross-sectional area into incident side of said reading light (RL 1) in said first photo-photo conversion element (PPCI);

optical reproducing image (WLP1, AN1) readout means located in an optical path with respect to said first photo-photo conversion element (PPCI) for reproducing an optical image readout from said first photo-photo conversion element (PPCI), said reproduced optical image being applied to an incident side for a writing light (WL2) of a second photo-photo conversion element (PPC2) comprising two transparent electrodes (Et1 & Et2) with at least a photo-conductive layer (PCL) (LL), dielectric mirror (DMLL) and photo-modulating layer (PCDML) interposed between said two transparent electrodes; and

second reading light (RL2) (BS12, WLP2, AN2, L4) means located with respect to said second photo-photo conversion element (PPC2) for striking a second reading light (RL2) into said incident side of said second photo photo conversion element (PPC2) to readout an optical image information corresponding to an optical image provided from said second photo photo conversion element (PPC2).

FIG. 1



(Comp. Specn. 34 pages;

Drwngs. 8 sheets.)

Ind. Cl. : 26

180581

Int. Cl.<sup>4</sup> : A 46 B 3/00

A 51 C 17/32.

#### A HAND-ACTUATED ROTATABLE TOOTHBRUSH.

Applicant : NOAH AMIT A CITIZEN OF ISRAEL OF 49 WEST 41TH STREET, NEW YORK, NEW YORK-10036, USA.

Inventor : MIRO S. CATER.

Application No. 254/Mas/1992 filed on 28th April, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1992), Patent Office, Chennai Branch.

#### 26 Claims

A hand actuated rotatable toothbrush comprising : a handle elongated in a longitudinal dimension for holding by hand and manually reciprocating longitudinally; a brush head

having a first surface; a plurality of positionally rotatable brush bristles extending away from said brush head in a direction generally perpendicular to said first surface; known securing means for movably securing said handle to said brush head for permitting longitudinal movement of said handle relative to said brush head; motion conversion means responsive to manually induced reciprocating linear motion of said handle along said longitudinal dimension relative to said brush head for rotating said plurality of rotatable brush bristles about an axis perpendicular to said first surface; and position stabilization means secured to said brush head for engaging tooth surfaces to oppose longitudinal movement of said brush head along with said handle in response to longitudinal reciprocation of said handle.

(Com. 42 appes;

Drwgs. 6 sheets.)

Ind. Cl. : 36 A

180582

Int. Cl.<sup>4</sup> : F 04 D 13/00.

#### SWIRL CONTROLLER FOR ROTARY PUMPS.

Applicant : HALBERG MASCHINENBAU GMBH OF HALBERGSTRASSE 1 6700 LUDWIGSHAFEN GERMANY, A GERMAN COMPANY.

Inventors :

1. LUDWIG KIEFER
2. JORG LOW
3. HORST LOTTERMOSER
4. KURT MULLER.

Application No. 255/Mas/1992 filed on 28th April 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1992), Patent Office, Chennai Branch.

#### 5 Claims

A swirl controller for rotary pumps having a flow duct enclosed by a casing and a plurality of guide vanes located substantially radially within the casing, each guide vane being supported on the casing at one end and on a permanently located hub at the other end, and having an adjusting device for adjusting the guide vanes, wherein a bearing for supporting a guide vane is located on a cap piece which closes an opening in the casing appropriate to the cross-sectional size of the guide vane and the said bearing being tolerant alignment errors

(Com. 9 pages;

Drwgs. 3 sheets.)

Ind. Cl. : 155 D

180583

Int. Cl.<sup>4</sup> : D 21 H 1/00

B 32 B 21/00.

#### DAMAGE RESISTANT DECORATIVE LAMINATE AND A PROCESS FOR PRODUCING THE SAME.

Applicant : FORMICA CORPORATION, OF 1680 ROUTE 23 NORTH WAYNE, NJ 07470, DELAWARE, USA; A DELAWARE CORPORATION.

Inventors :

1. DONALD JOSEPH ALBRINCK.
2. RONALD JAMES KEELING.

Application No. 256/Mas/92 dated April 30, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1992), Patent Office, Chennai Branch.

#### 18 Claims

A damage resistant decorative laminate having improved scratch, mar, scrape and abrasion resistance comprising at least one backing layer sheet and a thermoset resin impregnated decorative paper sheet laminated thereto, said decorative paper sheet having thereon an abrasion resistant coating

comprising a mixture of abrasion resistant mineral particles having a particle size of 15 microns to 45 microns in a concentration of 8 to 12 grams per square meter surface area; a known thickening agent in a concentration of 0.05 to 0.25 percent of the composition; and a known lubricating agent in a concentration of 0.05 to 0.25 percent of the composition.

(Com. 31 pages.)

Ind. Cl. : 151 : F&F

180584

Int. Cl.<sup>4</sup> : E 04 C 5/08.

**A PREDETERMINED ELONGATE HOLLOW BODY SUCH AS A TUBE, AND A METHOD OF ITS MANUFACTURE.**

Applicant : TUBE INVESTMENTS OF INDIA LTD., AN INDIAN COMPANY OF "TIAM HOUSE", 28, RAJAJI SALAI, CHENNAI-600 001, TAMIL NADU.

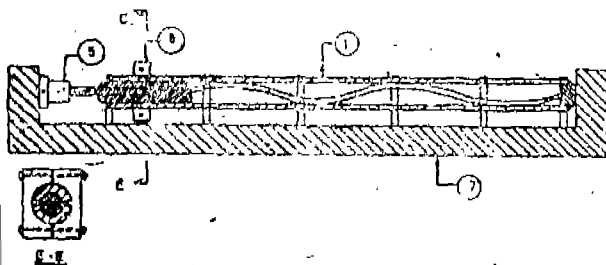
Inventor : BENNE NARASIMHAMURTHY SRIDHARA.

Application No. 264/Mas/92 dated May 6, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1992), Patent Office, Chennai Branch.

#### 12 Claims

A pretensioned elongate hollow body such as a tube, wherein said hollow body encloses at least one core with its one end bearing against the end cover of the hollow body and its other end bearing against a lug member securedly fastened or locked to said hollow body, and wherein said core is in a state of axial compression thereby imparting a predetermined tension to said hollow body.



(Com. 13 pages;

Drawgs. 4 sheets.)

Ind. Cl. : 128-F

180585

Int. Cl.<sup>4</sup> : A 61 M 3/00.

**A HYPODERMIC SYRINGE.**

Applicant & Inventor : BHRUGUBANDA VENKATA VIVEKANAND, 5-9-22/92, I FLOOR, ADARSH NAGAR, HYDERABAD-500 463, ANDHRA PRADESH, INDIA, INDIAN NATIONAL.

Application No. 265/Mas/92 dated May 6, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

#### 4 Claims

A hypodermic syringe comprising outer and inner tubes, slidably disposed with respect to each other, the inner tube having within it a cartridge, containing an injectible liquid, fixed thereto, said cartridge having at one end a plunger and at the other end a diaphragm together with a hub carrying a sheathed needle, the tips of the inner tube and needle sheath having matching apertures; the outer tube having within it a spring-loaded collet detachably attached to a safety cap, such that when the said cap is detached the

spring-loaded collet actuates the plunger to pressurise the liquid in the cartridge and when the tip of the inner tube is thrust against the human body the said tube telescopes into the outer tube thereby causing the needle to emerge through the said apertures and enter the body while, simultaneously, piercing the diaphragm and thus causing the liquid therewithin to pass through the needle into the body.

(Com. 7 pages;

Drwg. 1 sheet.)

Ind. Cl. : 31 C

180586

Int. Cl.<sup>4</sup> : H 01 L 47/00.

**A METHOD OF PRODUCING A THRESHOLD SWITCHING DEVICE.**

Applicant : DOW CORNING CORPORATION, OF 3901 S. SAGINAW ROAD, INLAND, MICHIGAN 48686-0994, USA; A US COMPANY.

Inventor : KEITH WINTON AND UDO C PERNISZ.

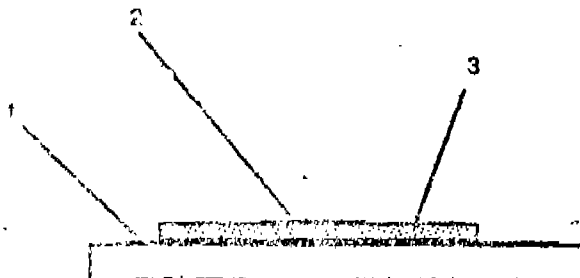
Application No. 266/Mus/92 dated 6th May 1992.

Convention Date : April 28, 1992 (Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

#### 4 Claims

A method of making threshold switching device having negative differential resistance comprising depositing a non-dense silicon dioxide film derived from hydrogen silsesquioxane resin between at least two electrodes for connecting to a voltage source to obtain a device having the characteristics of threshold switching with negative differential resistance when a voltage above the threshold voltage is applied across the electrodes.



(Com. 20 pages;

Drawings 6 sheets.)

Ind. Cl. : 32 D

180587

Int. Cl.<sup>4</sup> : C 22 C 29/00,  
29/02' 29/08.

**A METHOD FOR PRODUCING SINTERED CARBIDE BODY AND A SINTERED BODY MADE THEREBY.**

Applicant : SANDVIK AB, OF S-811 81 SANDVIKEN, SWEDEN AND EUROTUNGSTEIN POUDES S. A., OF RUE ANDRE SIBELLAS, F-38100 GRENOBLE FRANCE.

Inventor : STEFAN EDERYD, JAN AKERMAN, ROBERT BEAUFOY, MICHAEL CARPENTER, MAXIME BONNEAU, AND JACQUES PILLOT.

Application No. 267/Mas/92 dated 7th May 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

#### 24 Claims

A method of producing a sintered carbide body comprising at least one hard constituent such as herein described and a binder based on cobalt, nickel and/or iron by known powder metallurgical methods of milling, pressing and sintering of powders characterized in that the binder comprises non agglomerated particles of spheroidal morphology having dimensions of 0.1 to 20  $\mu$ m.

(Com. 32 pages;

Drawings Nil.)

Ind. Cl. : 157 D6C

180588

Int. Cl.<sup>a</sup> : EOI B. 9/00.

A DEVICE FOR ALIGNING AND CLAMPING A FLANGE UPON A SUPPORTING SURFACE.

Applicant : GH INTERNATIONAL LTD., OF PO BOX 219, GRAND CAYMAN, BW I, CANADA (A CANADIAN COMPANY).

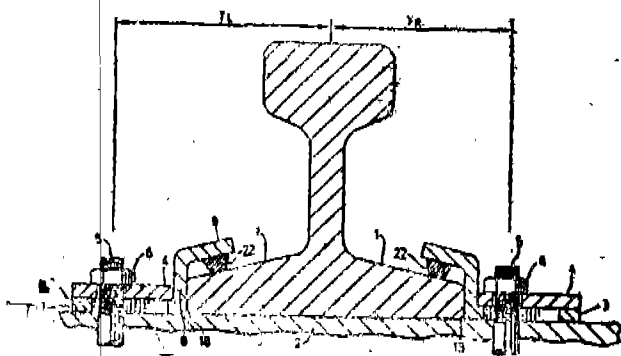
Inventor : DAVID GREENHOW.

Application No. 268//Mas/92 dated 7th May 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 21 Claims

A device for aligning and clamping a flange upon a supporting surface, comprising a clip, having a base portion, an abutment portion and cantilever portion, said base portion having a longitudinal slot and having a bottom surface slidably engaging said support surface in a loose condition and bearing upon said support surface in a clamped condition, said abutment portion extending from a forward end of said base portion perpendicular to said supporting surface, said abutment portion having a forward face for engaging an outer face of said flange, said cantilever portion extending forwardly from said abutment portion, said cantilever portion having a bottom surface engaging an upper surface of said flange; a cam washer having an eccentrically located hole, said cam washer having a bottom surface slidably engaging a top surface of said base portion when in a loose condition and bearing upon said base portion in a clamped condition, said cam washer having an outer flank for engaging a rearward face of said abutment portion; connecting means engaging a top surface of said cam washer and extending through said hole and said slot for aligning and bearing upon said cam washer and clip to said supporting surface and for clamping said flange between said cantilever portion and said supporting surface; wherein said flange is alignable by rotating said cam washer about said connecting means.



(Com. 24 pages;

Drwngs. 5 sheets.)

Ind. Cl. : 131 A 2

180589

Int. Cl.<sup>a</sup> : E 21 B 17/00.

AN ADJUSTABLE MANDREL ASSEMBLY FOR SUPPORTING A PIPE IN A WELLHEAD.

Applicant : FMC CORPORATION, A DELAWARE CORPORATION, OF 200 EAST RANOLPH DRIVE, CHICAGO, ILLINOIS 60601, USA.

Inventors :

1. ROY ERNEST SINGER
2. RICHARD CHARLES LALOR
3. KENNETH GENE ROUNTREE
4. MARCUS ALAN SMEDLEY
5. JOHN HAROLD MILLER.

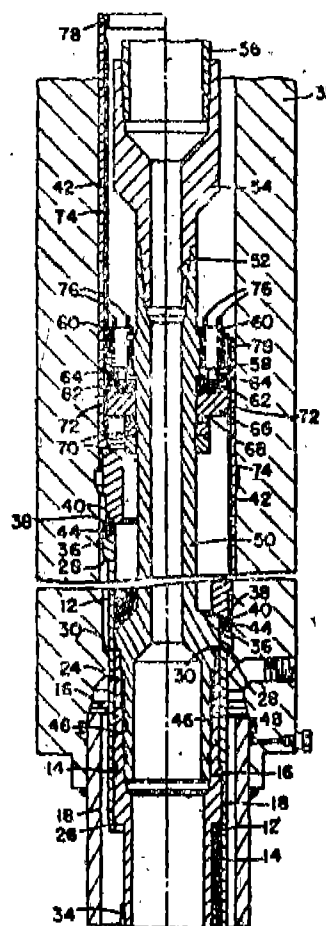
Application No. 270/Mas/1992 filed on 8th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 10 Claims

An adjustable mandrel hanger assembly for supporting a pipe in a wellhead, comprising :—

- (a) an elongated tubular mandrel having upper and lower ends, a set of internal threads and an external annular shoulder for supporting said assembly in the bore of a wellhead component;
- (b) a tubular hanger body having external threads that mate with the internal threads of the mandrel to interconnect said body and mandrel, and means to connect said body to a pipe to run the assembly into a wellhead; and
- (c) a hanger neck connectable to the hanger body for extending said body beyond the upper end of the mandrel to a position for cooperation with an annular sealing means to seal annulus between the hanger assembly and said wellhead component.



(Comp. Specn. 12 pages;

Drwngs. 3 sheets.)

Ind. Cl. : 143 D 3

180590

Int. Cl.<sup>a</sup> : B 65 B 25/00.

A PROCESS FOR PACKAGING FOOD ITEMS INTO HERMETICALLY SEALED INDIVIDUAL SLICES.

Applicant : SCHREIBER FOODS, INC. 425, PINE ST., P.O. BOX 19010, GREEN BAY, WISCONSIN 54307-9010, USA.

## Inventors :

1. VINCENT A. MELI
2. MICHAEL A. MATHARANI
3. TFD A. BRZEZINSKI
4. DAVID L. SHAFT
5. JAMES L. URMANSKI.

Application No. 275/Mas/92 filed on 11th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 14 Claims

A process for packaging a food item into hermetically sealed individual slices (100), comprising the steps of :

folding a continuous web of heat-sealable plastic material into folded conduction including a folded longitudinal first side and an open longitudinal second side, the folded web thereby including a front sheet and a rear sheet;

moving the web in a forward direction;

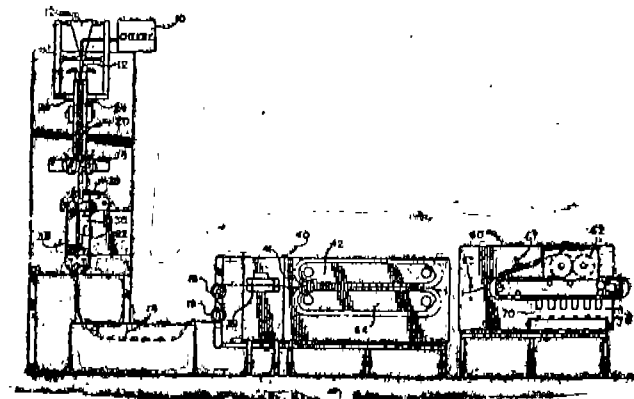
forming a longitudinal hermetic seal (106) along the open longitudinal second side of the folded web to define a continuous tubular web, the longitudinal hermetic seal (106) being formed in a continuous manner as the web is moved forward;

inserting the food item into the tubular web;

after the food item is inserted, flattening the web to form a continuous slice of the food item disposed between the front and rear sheets of the flattened web;

urging the front and rear sheets of the flattened web into intimate contact with each other at predetermined intervals to define cross-sealing zones and applying sufficient pressure at the cross-sealing zones to remove substantially all of the food item from between the front and rear sheets at the cross-sealing zones, the cross-sealing zones extending from the first longitudinal side to the second longitudinal side of the flattened web, and

forming a plurality of hermetically sealed cross-seals (102) at the cross-sealing zones while the flattened web is continuously moved forward by heating the web at the cross-sealing zones for a period of time sufficient to hermetically seal the web together across the cross-sealing zones, thereby forming individual slices (100) of the food item hermetically sealed within the plastic material.



(Com. 34 pages;

Drwgs. 5 sheets.)

Ind. Cl. : 172 A 9 D1 D8

180591

Int. Cl. : D 01 B 7/00.

A TWISTING MACHINE FOR PRODUCING TWISTED SILK YARN DIRECTLY FROM COCOONS

Applicant & Inventor : RANGASWAMY NAIDU GOVINDARAJULU, OF 15, DR. JAGANNATHAN NAGAR, CIVIL AERODROME POST, COIMBATORE-641014, INDIA; AN INDIAN CITIZEN.

Application No. 306/Mas/92 dated May 20, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 4 Claims

A twisting machine for producing twisted silk yarn directly from cocoons comprising a frame assembly consisting of a gear end frame, off end frame and one or more middle spring pieces; a reel mounted on the said frame assembly extending to at least one of the sides carrying a basin for containing water and boiled cocoons either side or both sides along the full length of the frame assembly; a filament guide attached to the said reel disposed above the said basin, plurality of stay rods attached to the said reel carrying guiding and tensioning pulleys; plurality of carrier rollers and a thread guide mounted on the said frame assembly; a spindle beam disposed along the length of the frame assembly for holding plurality of spindles; plurality of tin roller pulleys mounted on a tin roller shaft and connected by endless tape or belt to the spindles for driving sets of spindles; a drive means for driving the said tin roller pulleys; a ring rail lifting mechanism consisting of heart cam mounted on a rotatable shaft mounted on the middle spring piece and the off end frame; a freely movable cam bowl mounted in contact with the said cam on a lifting lever arm which is fixed loosely on the off end frame allowing rotation about the fixing point, the other end of the said lifting lever arm being provided with a pin held by a wire string, one end of the said wire string being attached to a builder motion main pulley, the other end of the said wire string being attached to a primary bowl mounted on one of a pair of ring rail movement shafts, each said ring rail movement shaft being rotatably mounted on the said frame assembly, the said pair of ring rail movement shafts being coupled by a pair of reversing gear wheels, ring rail lifting howls being provided on each ends of both said ring rail movement shafts, the said ring rail lifting bowl being connected to a ring rail through a tape, the said ring rail being guided by pocket rods fixed to the said spindle beam; a builder motion mechanism consisting of a cam shaft, off end wheel meshing with a builder motion main wheel having two pins a ratchet wheel, a ratchet shaft end wheel and a main pulley wheel, the said main pulley wheel being attached to the said builder motion main pulley; a delivery roll mechanism consisting of a tin roller wheel attached to the said gear end side of the said tin roller shaft and meshed with a first compound carrier wheel which is connected to a spun wheel meshed with a second compound carrier wheel, the said second compound carrier wheel being meshed with a cam shaft gear end wheel for transmitting drive to the said callendar roller through a pair of chains running between sprocket and callendar roller end sprocket; and heating means mounted on the said reel for heating the silk filaments.

(Com. 12 pages;

Drwgs. 2 sheets.)

Ind. Cl. : 146 C.

180592

Int. Cl. : G 01 C 17/00.

A DIRECTION FINDER DEVICE.

Applicant & Inventor : S. PARAMASIVAM, FLAT NO. 7, 93, CATHEDRAL ROAD, CHENNAI-600 086.

Application No. 307/Mas/92 filed on 20th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

## 6 Claims

A direction finder device comprising a self-supporting sheet with a display of the projection of the world or portion of the world with the indication of NORTH/SOUTH directions and locations of at least some of the desired places in the said projection, a magnetic compass for indicating geographic NORTH/SOUTH directions fixed on the said self-supporting sheet, an indicating means located on the said self-supporting sheet about the place whose direction is to be determined and passing through the place where the user is situated and fixing means for fixing the said indicating means on the said self-supporting sheet.

(Com. 8 pages;

Drawings 2 sheets.)

Ind. Cl. : 5 A, D

180593

Int. Cl.<sup>4</sup> : A01B 3/00, 15/00.**AN IMPROVED PLOUGH WITH A MOUNTED ADAPTOR.**

Applicant : ENGINEER &amp; CO., AN INDIAN, OF PH No. 16, MELUR 625 106, MADURAI DISTRICT.

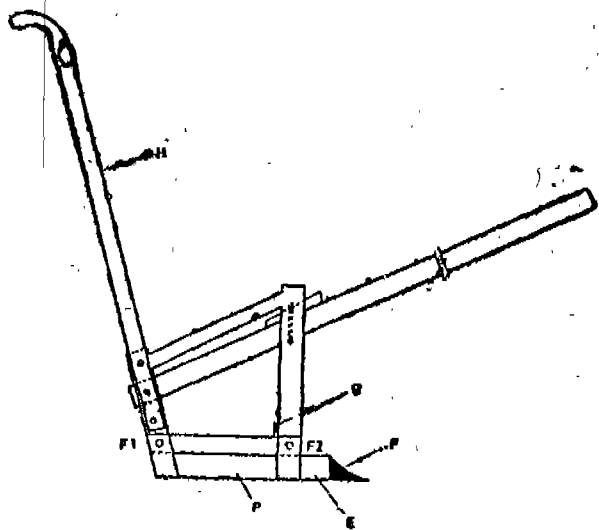
Inventor : VELLANAYAKAM MANKAN KRISHNASWAMY.

Application No. 308/Mas/92 dated 20th May 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**11 Claims**

An improved plough with amounted adaptor comprising a plough having at least one handle, a frog assembly, a beam and a plough share wherein the base of the said frog assembly is provided with an adaptor consisting of a horizontal body having means for fixedly or detachably mounting the same on the frog assembly, the said horizontal body extending beyond the plough body and terminating in plug, a plough share alignable with the said plug and is held in position.

(Prov. 5 pages;  
(Com. 8 pages;Drwgs. 2 sheets.)  
Drwgs. 2 sheets.)

Ind. Cl. : 40-B

180594

Int. Cl.<sup>4</sup> : C 08 F 4/00.**A METHOD FOR THE MANUFACTURE OF AN AQUEOUS SUSPENSION OF A SOLID FREE-RADICAL FORMING INITIATOR.**

Applicant : AKZO NOBEL NV, OF VELPERWEG 76, 6824 BM, ARNHEM, THE NETHERLANDS.

Inventors :

1. CLAES LUNDIN, SWEDEN.
2. BERIT SIMONSSON, SWEDEN.

Application No. 310/Mas/92 dated May 21, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**10 Claims**

A method for the manufacture of an aqueous suspension of a solid free-radical forming initiator comprising the steps of (a) heating the initiator such as herein described to its melting point; (b) firmly dividing the said initiator in water

while it is in a molten state; (c) rapidly cooling the same so that the initiator is in a molten state for a period of time of not longer than 5 minutes.

(Com. 19 pages;

Drwg. 1 sheet.)

Ind. Cl. : 206-E.

180595

Int. Cl. : No. G 11 b 33/14.

**A DATA RECORDING DISK FILE.**

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, A COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, USA; OF ARMONK, NEW YORK-10504, U.S.A.

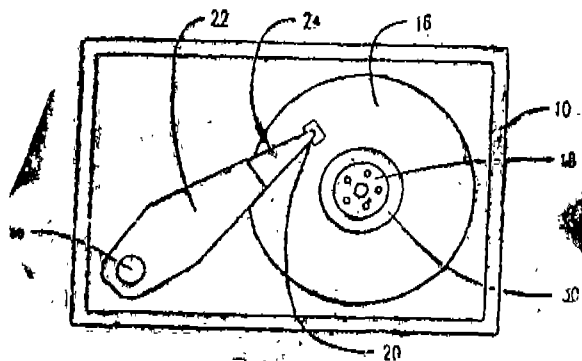
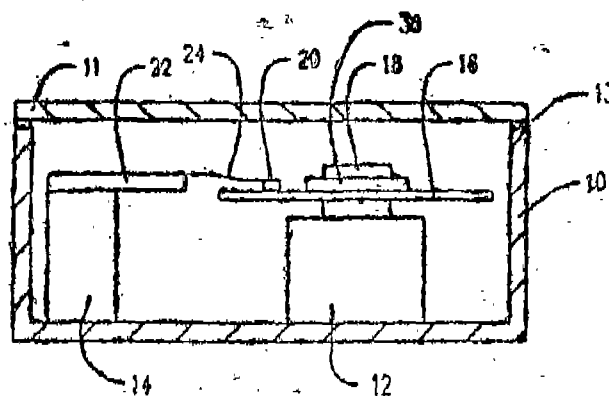
Inventors : THOMAS ALBRECHT, JOHN FOSTER AND ANDREW HOMOLA.

Application No. 317/Mas/1992, filed on 26th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

**16 Claims**

A data recording disk file comprising at least one data disk having a thin film of lubricant thereon; a hub attached to the disk; a motor connected to the hub for rotating the disk; means for holding a supply of lubricant; a supply of lubricant held by the holding means, the supply being of an amount sufficient to replenish the disk over the design life of the disk file; a transducer for writing data to or reading data from the disk; a transducer carrier having a ski surface in contact with the lubricant film on the disk; an actuator for moving the carrier generally radially across the disk so the transducer may access different regions of data on the disk; means connecting the carrier to the actuator for urging the ski surface of the carrier into contact with the lubricant film on the disk during rotation of the disk; and means for supporting the motor and actuator.



(Com. 26 pages;

Drwg. 7 sheets.)

Ind. Cl. : 168-C

180596

Int. Cl.<sup>7</sup> : G 1 B-21/00, 21/21.**A TRANSDUCER ASSEMBLY FOR A DATA RECORDING DISK FILE.**

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, USA OF ARMONK, NEW YORK, 10504, USA.

Inventors :

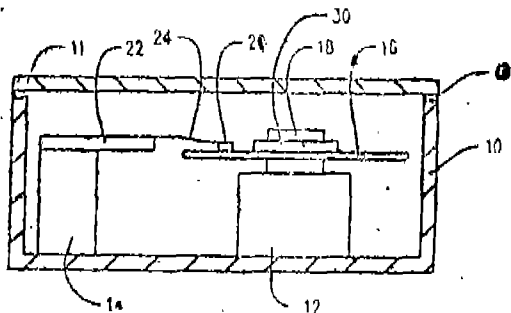
1. THOMAS ALBRECHT, CALIFORNIA
  2. JOHN FOSTER, CALIFORNIA
  3. ANDREW HOMOLA, CALIFORNIA
- ALL ARE CITIZENS OF USA.

Application No. 318/Mas/92 filed on 26th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972), Patent Office, Chennai Branch.

**11 Claims**

A transducer assembly for a data recording disk file of the type wherein a disk has a liquid film on its surface, the assembly comprising; a carrier having an air-bearing surface and at least one ski foot extending from the carrier for skidding on the liquid film; and a transducer attached to the carrier for reading data from or writing data to the disk.

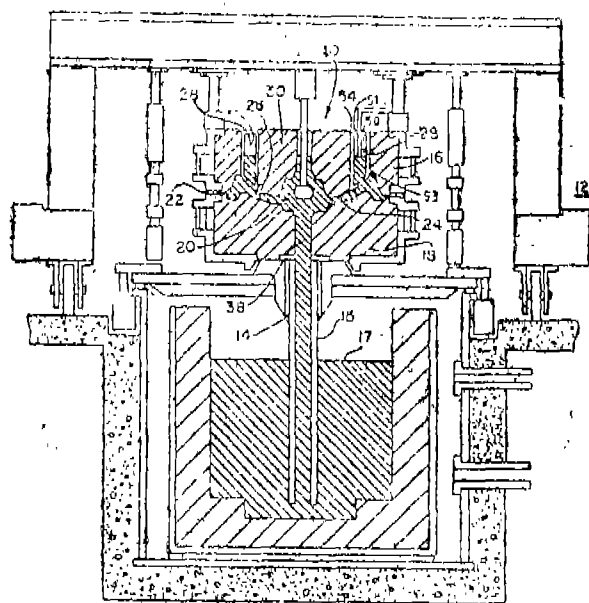


(Com. 24 pages;

Drwgs. 7 sheets.)

a trenched band in said lower face, which band extends between each adjacent pair of risers at said lower face to provide a generally circumferential band at said lower face;

an insulating material provided in each said riser and said trenched band, said insulating material in each said riser providing a port at said lower face and an annulus at said lower face having an outer diameter greater than a width of said trenched band at said lower face, said insulating material in said trenched band cooperating with said cope portion lower face and said annulus at each said riser to provide a generally continuous surface at said cope portion lower face, which insulating material enhanced the cooling and heat transfer of molten metal in said mold to promote control of solidification of a cast railroad wheel.



(Com. 19 pages;

Drwgs. 4 sheets.)

Ind. Cl. : 33 F

180597

Int. Cl.<sup>7</sup> : B 22 C 9/00  
B 22 D 27/00.**A GRAPHITE MOLD FOR CASTING RAILROAD WHEELS.**

Applicant : AMSTED INDUSTRIES INCORPORATED, 44TH FLOOR-BLVD TOWERS SOUTH, 205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601, USA, A CORPORATION OF DELAWARE.

Inventor : JOHN L. PAWLIK.

Application No. 320/Mas/92 dated May 26, 1992

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972), Patent Office, Chennai Branch.

**6 Claims**

graphite mold for casting railroad wheels, said mold comprising a drag portion with an upper face having a first shape therein, and a cope portion with a top surface and a lower face having a second shape therein, the first and the second shapes alignable at matching of said cope and drag portions to define a casting cavity, said cope portion having at least two risers communicating between said top surface and said lower face and cavity;

each said riser being generally cylindrical and having a cross-sectional diameter, which risers are open at said lower face;

Ind. Cl. : 172 C 3

180598

Int. Cl.<sup>7</sup> : D 01 B 1/00**A METHOD AND APPARATUS FOR PRODUCING SEEDLESS COTTON FROM SEED COTTON KAPAS**

Applicant : THE LAKSHMI MILLS CO. LTD., OF 348, AVANASHI ROAD, COIMBATORE, TAMIL NADU, INDIA, A COMPANY REGISTERED UNDER THE COMPANIES ACT, 1910.

Inventors : 1. GOVINDASWAMY KUPPUSWAMY SUNDARAM, 2. TIRUNILLAI LAXMAN VISWANATHAN, 3. MANDHANAM AYYANAR CHANDRASEKARA RAJHA, ALL ARE INDIAN CITIZEN.

Application No. 321/Mas/92 filed on 26th May, 1992.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Chennai Branch.

**5 Claims**

An apparatus for reducing seedless cotton from seed cotton kapas, comprising a feed plate (1), a pair of rollers (2 and 3) consisting of a rubber mounted top roller (2) and a ground metal roller (3) forming a nip between the said rollers, a spring and lever mechanism for applying load on the top roller (2), a knife edge (4), the tip of which is located close to the nip of the pair of rollers (2, 3) on the feeding side, an opening (6) provided between the feed plate (1) and the nip between the pair of rollers (2 and 3) in



front of the tip of the knife edge (4) and a suction duct (5) located to the nip on the side of the feed rollers (2, 3) and opposite to the feed plate (1) for sucking away the ginned lint coming out of the nip of the pair of rollers (2, 3)

(Com. Specn. 9 pages;

Drwgs. 1sheet)

Ind. Cl. : 73

180599

Int. Cl. : D 06 C 17/04

# **FULLING MACHINE FOR THE TREATMENT OF TEXTILE AND THE LIKE.**

Applicant : OFFICINA MECCANICA BIANCALANI & C. DI BIANCALANI FIORENZO & C. S. N. C. AN ITALIAN COMPANY OF VIA UDINE NO. 16, 50047 PRATO, FIRENZE, ITALY.

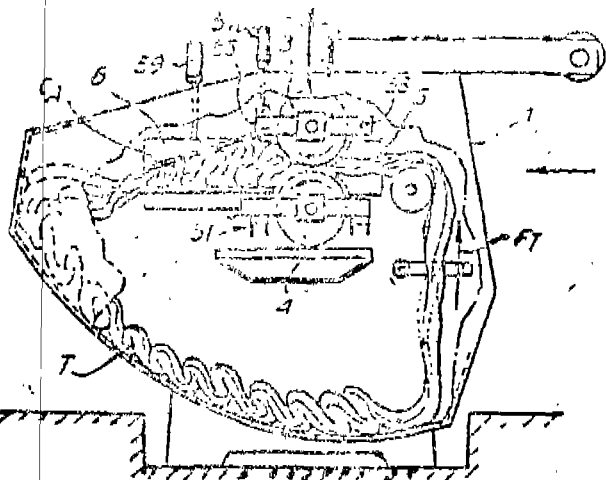
Inventor : BIANCALANI FIORENZO.

Application No. 324/Mas/92, filed on 27th May, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Chennai Branch.

## **10 Claims**

A Fulling machine for the treatment of Textiles and similar materials comprising a first drawing cylinder (3) and a second drawing cylinder (4) between which the fabric (T) is made to pass, and for each cylinder a drawing motor (13) for drawing said cylinders into rotation, said cylinders (3, 4) being rotated in opposite directions, characterized in that each motor (13) is provided inside the respective cylinder (3, 4).



(Comp. Specn. 10 pages,

Drgs 3 Sheets)

Ind. Cl. : 190 A

180600

Int. Cl. : F 01 K 23/10

# **COMBINED GAS/STEAM POWER STATION PLANT**

Applicant : ASEA BROWN BOVERI LTD., OF BADEN, SWITZERLAND, A SWISS COMPANY.

Inventors : 1. HANS ULRICH FRUTSCHI, 2. ALFRED HAAUSERMANN, 3. DR. HANS WETSTEIN.

Application No. 325/Mas/92 dated 27th May, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Chennai Branch.

—467GI/97

## **6 Claims**

A combined gas/steam power station plant, comprising.

a group of gas turbines having a low pressure compressor driven by a low pressure turbine and high pressure compressor driven by a high pressure turbine;

the low pressure compressor being connected upstream of the high pressure compressor, the high pressure compressor being connected upstream of the high pressure turbine, and the high pressure turbine being connected upstream of the low pressure turbine;

a first combustion chamber connected downstream of the high pressure compressor and upstream of the high pressure turbine for generating hot gas for driving the low pressure turbine;

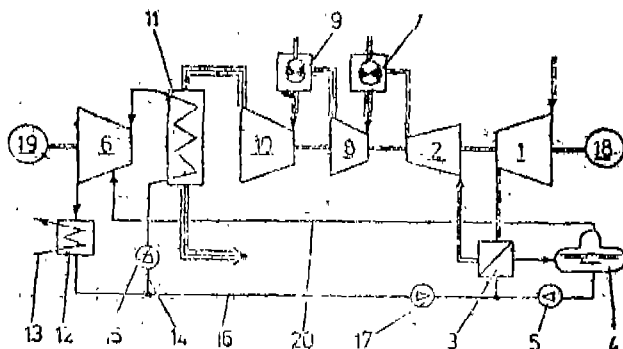
the low pressure compressor, low pressure turbine and second combustion chamber comprising a basic unit, and the high pressure compressor, high pressure turbine and first combustion chamber comprising a pressure increasing unit;

an exhaust heat boiler connected downstream of the low pressure turbine for generating steam from heat of the discharge of the low pressure turbine;

a steam turbine connected to the exhaust heat boiler for receiving steam from the boiler for driving the steam turbine;

an intercooler interposed between the low pressure compressor and the high pressure compressor for cooling compressed air before entry into the high pressure compressor; and

an evaporator connected to the intercooler for generating steam from heat removed from the compressed air, said evaporator connected to the steam turbine independently of the exhaust heat boiler for delivering steam for driving the steam turbine.



(Com. Specn. 13 pages

Drwgs. 2 sheets)

Ind. Cl. : 146 D 2

180601

Int. Cl. : G 02 B 6/26

# **A CONNECTOR FOR AN OPTICAL FIBRE.**

Applicant : AB STRATOS LIMITED (A BRITISH COMPANY), HOLLANDS ROAD, HAVERHILL, SUFFOLK CB 9 8 PR, UNITED KINGDOM.

Inventors : PETER FOLDI

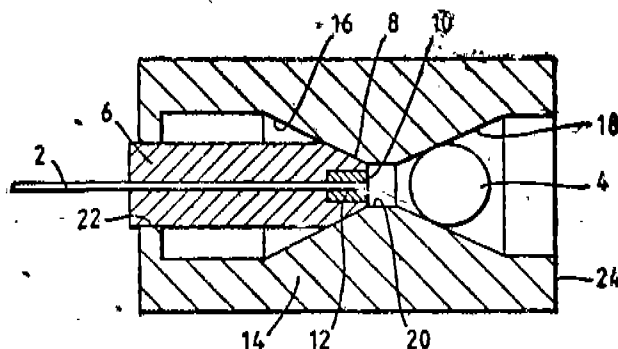
Application No. 285/Mas/92 dated 13th May, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Chennai Branch.

## **4 Claims**

A connector for an optical fibre, comprising a body (14) having a through passageway, the surface of the passageway having a first conical section (18) which opens outwards to one end of the body (14), and a spherical lens (4) positioned in the conical section (18) and bearing on the wall

thereof, characterised by a second conical section (16) which opens outwards to the other end of the body and a fibre retainer (6) gripping an end of the optical fibre (2), the retainer (6) having a conical outer surface portion (8) which bears on the wall of the second conical section (16) and a flat end surface (10) which is co-planar with the end surface of the optical fibre (2), whereby the end surface of the optical fibre is held in a predetermined position relative to the lens (4).



(Com. 15 pages,

Drw. 5 Sheets

Ind. Cl. : 108 B 2 (b)

180602

Int. Cl.<sup>4</sup> : C 21 B 11/00

METHOD AND APPARATUS FOR PRODUCTION OF METALS FROM THE CORRESPONDING METAL OXIDE AND AN APPARATUS FOR THE SAME.

Applicant : ELKEM TECHNOLOGY a/s, A COMPANY INCORPORATED UNDER THE LAWS OF NORWAY, OF NYDALSVAREN 28, OSLO 4, NORWAY.

Inventors : (1) ROBIN EPHITHITE, (2) ERIK SVANA

Application No. 286/Mas/92 filed on 13th May, 1992.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office Branch, Chennai.

14 Claims

A method for the production of a metal from the corresponding metal oxide in which the oxide is subjected to prereduction in the solid state by an excess of solide carbonaceous reduction material, the prereducted material is melted and subjected to a final reduction in an electric smelting furnace, wherein the excess carbonaceous reduction material, ashes from consumed carbonaceous reduction material and calcium sulphide if present, are removed from the prereduced metal oxide by gas screening of the mixture discharged from the prereduction step before the prereduced metal oxide is conveyed to the smelting and final reduction step.

(Comp. 28 pages:

Drwgs. 5 sheets)

Ind. Cl. : 201 D : 80 K

180603

Int. Cl.<sup>4</sup> : B 01 J 47/00

AN IMPROVED PROCESS FOR DEMINERALISATION OF SALINE WATER.

Applicant : MANJARABAD VENKARARAMANASWAMY NAIK SRINIVASA RAJU, AN INDIAN CITIZEN, OF F-11 & F-14, MANISH COMPLEX, CONVENT ROAD, BANGALORE-560 025, KARNATAKA STATE, INDIA.

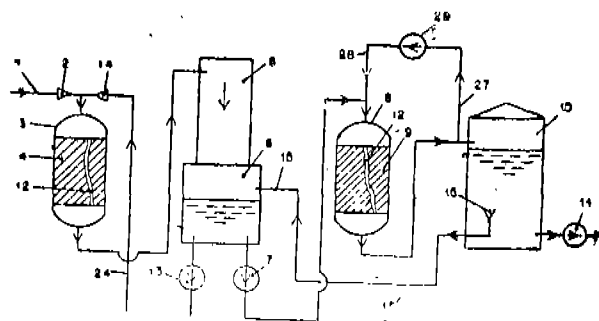
Inventor : MANJARABAD VENKARARAMANASWAMY NAIK SRINIVASA RAJU.

Application No. 288/Mas/1992 filed on 14th May, 1992.

Appropriate Office for Oppositions Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

12 Claims

An improved process for demineralisation of saline water by known methods using demineraliser water treatment plant comprising of at least one stream of three consecutive stages for treatment of water, the first and the third stages being ion exchanger unit(s) the second stage being degasifier unit(s), the first, second and third stages being connected in a way that the treated water from first stage is sent to the second stage where it is degasified, and then the treated water from second stage to the third stage for further demineralisation, the demineralised water from first stage being collected in a storage tank for distribution outside, wherein the improvement comprising extra recirculation of the degasified water to the first stage or extra recirculation of demineralised water to the first stage or third stage of water treatment respectively, either directly or indirectly to the ion exchanger units requiring extra flow of water for the establishment of at least specified minimum flow rates of water in those said some or ion exchanger units for the prevention of channelling in resin beds.



(Com. Specn. 13 Pages;

Drwg. 2 Sheets)

Ind. Cl. 143C, D4

180604

Int. Cl.<sup>4</sup> : B 65 B 13/00

A SEMI-AUTOMATIC PLASTIC STRAPPING MACHINE.

Applicant : ITW SIGNODE INDIA LIMITED, OF NAGARJUNA HILLS, PANJAGUTTA, POST BOX NO. 1520, HYDERABAD 500482, INDIA, AN INDIAN COMPANY.

Inventors :

- (1) S. BHATTACHARYA
- (2) T. K. KODANDARAMAN
- (3) P. M. AMIR SULTAN
- (4) S. P. RATH

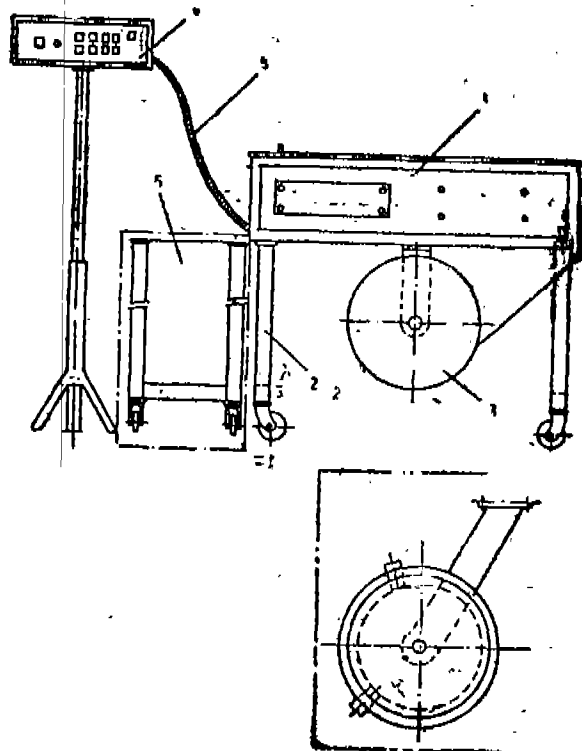
Application No. 290/Mas/92 dated May 14, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A semi-automatic plastic strapping machine comprising a body frame supported on support members, a strapping mechanism mounted on the body frame, said strapping mechanism consisting of a dispenser with a brake assembly, a strap feeder, a strap tensioner, sealing means, cutting means, and a micro-processor based controller for controlling the sequence of operation of the said dispenser, strap feeder, strap tensioner, sealing means, cutting means, the said controller being provided with an initial actuator, a clutch

actuator for controlling the feeding of the strap, a feed length timer, a drive timer and a sealing temperature adjuster.



(Com. 8 Pages;

Drwgs. 3 Sheets)

Ind. Cl. : 44

180605

Ind. Cl. : G 04 B 19/00

WORLD TIME WATCH FOR INDICATING TIME AT VARIOUS CITIES ACROSS THE WORLD.

Applicant : TITAN INDUSTRIES LIMITED, A COMPANY REGISTERED UNDER THE COMPANIES ACT, 1956 AND HAVING ITS REGISTERED OFFICE AT SIPCOT INDUSTRIAL COMPLEX, HOSUR-635126, TAMIL NADU, INDIA.

Inventors :

- (1) JOTHIGOUDANAPURA MAHADEVALAH SHIVASWAMY
- (2) VELAYUDHAN NELLAYAPPAN.

Application No. 291/Mas/92 dated May 15, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A wrist watch comprising a City Indicator having a centre disc with 24 Hour marking and the names of the Cities Printed on the outer dial where 12 Hours are also printed and the said city indicator positioned in anti clock wise steps of 30 minutes having a time difference of 1/2 hour or it multiples from GMT and the said watch means comprising hands rotating independently of each other at a speed of one rotation per 24 Hours in which the said City Indicator is stationary having 48 Teeth retained in position by a spring.

(Com. 8 Pages;

Drwgs. 2 Sheets)

Ind. Cl. : 63 B

180606

Int. Cl. : H 02 K 3/12

AMATURE STRUCTURE OF AN ELECTRIC MOTOR.

Applicant : MITSUBA CORPORATION OF 2681, HIROSAWACHO 1-CHOME, KIRYU-SHI, GUNMA-KEN, JAPAN.

Inventors :

- (1) KOJI KOBAYASHI
- (2) KAZUO ISHITA.

Application No. : 293/Mas/92 filed on 15th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

2 Claims

An armature structure of an electric motor in which many windings of a coil (9) are wound to slots formed between teeth (8a) projecting radially, characterized in that the total number of said slots is an integral multiple of 3, three slots constituting one slot group, in that while each of the three slots in each slot group has substantially the same sectional area, two slots (1) and (3) are radially deep, and the remaining one slot (2) being a substantially triangular slot shallower than the two slots (1) and (3), the width of this slot increasing as it approaches the outside, and in that the three slots (1), (2) and (3) are arranged so that the shallow slot is positioned between the deep slots (1) and (3), said slot group being repeatedly formed.

(Com. 14 Pages;

Drwgs. 5 Sheets)

Ind. Cl. No. 172-D4.

180607

Int. Cl. No. D 01 h - 15/00.

A PROCESS OF MANUFACTURING THREAD ON AN OPEN-END SPINNING MACHINE AND AN OPEN END SPINNING MACHINE THEREOF.

Applicant : SCHUBERT AND SALZER MASCHINEN-FABRIK AG. A GERMAN COMPANY, OF POSTFACH 260, 8070 INGOLSTADT, FEDERAL REPUBLIC OF GERMANY.

Inventors :

- (1) ANTHONY BALL
- (2) ULRICH RODIGER.

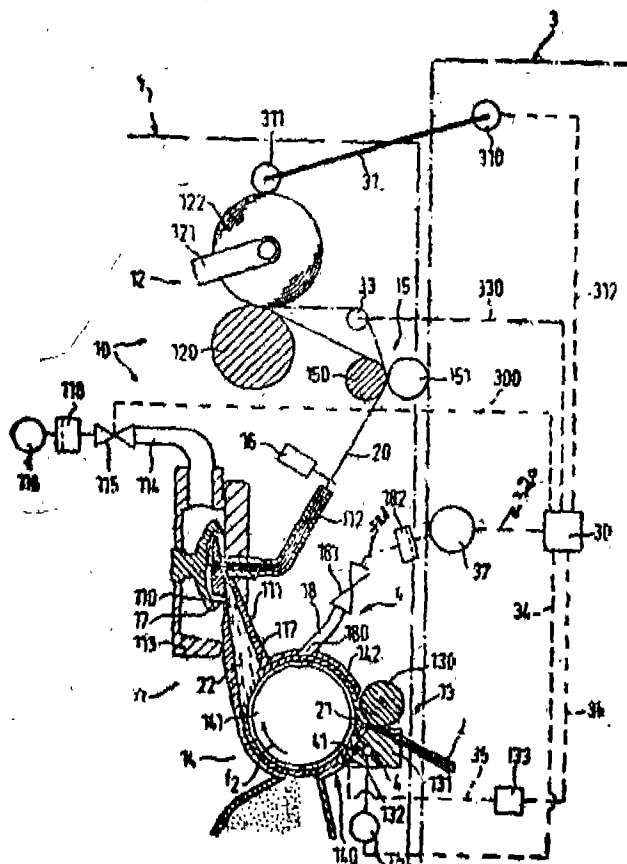
Application No. 298/Mas/92, filed on 18th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

42 Claims

A process of manufacturing thread in an open-end spinning apparatus having a fibre collection surface, in which process a sliver is supplied to the clothing of an opening cylinder and in opened thereby into fibres and supplied to the fibre collection surface, where the fibres are incorporated into the end of a returned thread which is then drawn off continuously, wherein the loading end of the sliver, forming a tuft, is supplied for piecing to the opening cylinder, at a penetration depth which is greater than the penetration

depth subsequently after piecing, whereas piecing is carried out in a conventional manner, matched to a reduction in the penetration depth.



(Comp. 65 Pages;

Drwgs. 7 Sheets)

Ind. Cl. : 85 J

180608

Int. Cl.<sup>4</sup> : F27D - 17/00

**A DEVICE FOR COLLECTING GASES OR FUMES EMITTED BY A METALLURGICAL VESSEL.**

Applicant : UNIMETAL OF 47 RUE HAUTE SEILLE-57040, METZ, CEDEX 1, FRANCE ( A FRENCH COMPANY).

Inventors :

(1) DANIEL PERNET

(2) JACQUES BLUM.

Application No. 299/Mas/92 dated 18th May 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

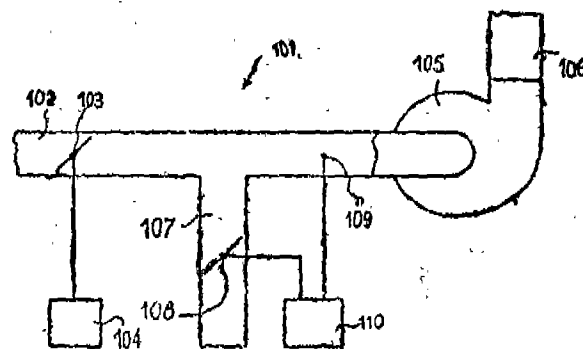
A device for collecting gases or fumes emitted by a metallurgical vessel (2) in the inside of which is effected the melting and/or the conversion of metallurgical charge, with the production of gases or fumes, and comprising a stage (40) emitting gases or fumes out of the vessel, in communication with the inside of the vessel, the collecting device comprising a hood (5) for exhausting the gases or fumes in the emission stage (4) of the vessel, a chamber (7) for the combustion of the gases or fumes, a filter (9) and a pumping means (11) having an intake part, connected in series and in this order through a first duct (6) connecting the exhaust hood (5) to the combustion chamber (7), a second duct (8) connecting

the combustion chamber to the filter, and a third duct (10) connecting the filter to the pumping means, characterized in that the device comprises :

a first adjusting element (12) for adjusting pressure drop disposed in the first duct (6) controlled by a first regulating means (13) connected, for the control thereof, to a pressure sensor (14) disposed in the inside of the vessel, in the vicinity of the emission stage (4),

an additional duct (15) connected to the third duct (10) at one of the ends thereof and opening out to the open air at the other end thereof.

and a second adjusting element (16) for adjusting pressure drop disposed in the additional duct (15) and controlled by a second regulating means (17) connected, for the control thereof, to a pressure sensor (18) disposed in the third duct (10) in proximity to the intake part of the pumping means.



(Com. 16 Pages;

Drwgs. 2 Sheets)

Ind. Cl. : 189 .

180609

Int. Cl.<sup>4</sup> : F 24 C-3/00, 5/00

**A NOVEL KEROSENE STOVE.**

Applicant : PUTTUR HAYAVADANA ACHARYA, AN INDIAN CITIZEN, OF HOUSE NO. 121, NEAR YUVAKA-MANDALA SECOND STAGE, KATTIPALYA, KRISHNAPURA, SURATKAL, MANGALORE KARNATAKA STATE, INDIA.

Inventor : (1) PUTTUR HAYAVADANA ACHARYA.

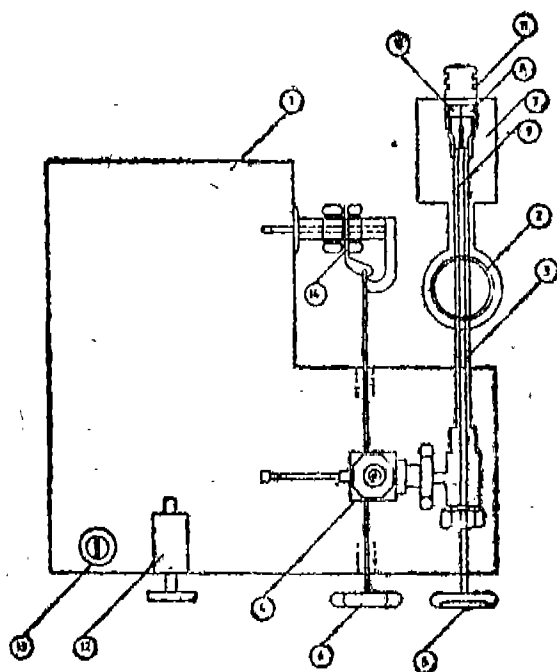
Application No. 300/Mas/92 filed on 18th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A novel kerosene stove comprising an air-tight kerosene tank (1), with a closable kerosene port (13) and a pressure pump (12) for creating pressure in the said kerosene tank, at least one burner (2) of the type used with LPG, a control valve (4) connecting a kerosene lifting point in the said kerosene tank to a kerosene feed pipe (3), the said kerosene feed pipe (3) being disposed above the said burner (2) and connected to the inlet of the burner through a gas connector box (7), the said kerosene feed pipe being provided with a jet (8) at the point where the said feed pipe (3) is connected to the gas connector box (7), a needle (10) fixed to a needle connecting rod (9) passing through the said feed pipe (3) with a jet cleaner knob (5) attached to one end of the said needle connecting rod (9) for cleaning the jet (8), an oxygen gap (11) is being provided on the feed pipe (3) just before the gas connector box (7), and a starter (14) having a jet connected to an auxiliary kerosene lifting point in the kerosene tank (1) through a starter knob (6) attached to a connecting rod for opening and closing the jet of the starter

wherein the said starter (14) is located for vapourizing the kerosene in the feed pipe initially prior to lighting the burner.



(Com. 8 Pages;

Drwgs. 2 Sheets)

Int. Cl. : 147 J

Int. Cl. : H 04 R 31/00, C 09 J 3/14

A UV-HARDENABLE ADHESIVE COMPOSITION TO ADHERE TWO PIECES SUCH AS THE MOVING COIL-CARRIER TO THE DIAPHRAGM OF A LOUD SPEAKER.

Applicant : NOKIA (DEUTSCHLAND) GMBH, OF OSTLICHE KARL-FRIEDRICH-STRASSE 132, 7530 PFORSHEIM, FEDERAL REPUBLIC OF GERMANY. A GERMAN COMPANY.

Inventor : (1) JOHANN LANG.

Application No. 302/Mas/1992 filed on 19th May, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

4 Claims

A UV-hardenable adhesive composition to adhere two pieces such as the moving coil carrier to the diaphragm of a loud speaker, in a temperature stable and impact-resistant manner, the said adhesive composition comprising a UV-hardening single component acrylate-base and a photoinitiator, characterised in that a filler is added to the adhesive composition, the said filler being capable of ensuring that ultraviolet light stringing the adhesive will be propagated into the adhesive that has diffused into the adhesive-absorbing material.

(Comp. Specn. 9 Pages;

Drwg. Nil)

Cl. : 129 H G P

180611

Int. Cl. : B 23 B 27/00, 27/12.

A MACHINE FOR MANUFACTURING INTERNAL AND EXTERNAL EPITROCHIDAL PROFILED GEARS.

Applicant & Inventor : RATHINDRANATH MAITI, OF MECHANICAL ENGINEERING DEPARTMENT, IIT, KHARAGPUR, PIN-721302, WEST BENGAL.

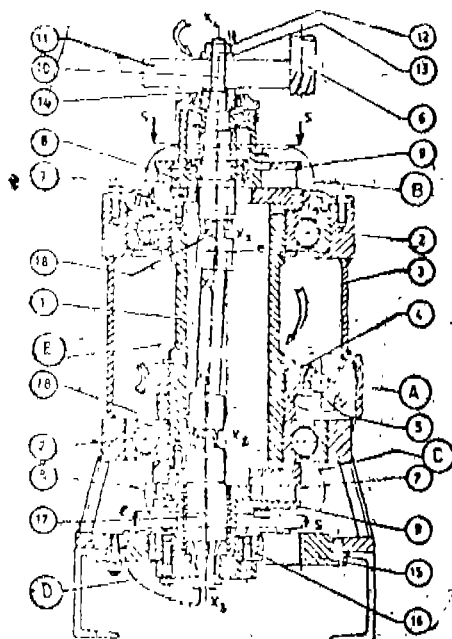
Application No. 501/Cal/1993 filed on 1st September, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office Calcutta.

1 Claim

Machine for manufacturing internal and external epitrochoidal gears i.e., cutting internal and external epitrochoidal profiles which are either unidirectional i.e., pure epitrochoidal, mounted i.e., inwardly and outwardly constant difference, or mixed external epitrochoidal profiles or outwardly constant difference mounted internal epitrochoidal and parallel gears, comprising a hollow shaft member (1), a housing member (2) surrounding the said hollow shaft member which is casing in sealing and rotatable relation to said casing i.e., housing member (3), having a single start worm reference gear (4) input shaft (5), mounted on the housing geared to the said input shaft (5) by keying means or wheel (6) or integral means on the said hollow shaft which has two infinitely variable centre distance attachment (B) and C) firmly attached to the said shaft at the two ends outside the support bearings (2) provided for said rotatable motion of the hollow shaft the said each variable centre distance attachment consists of base plate (7), through which the shaft is screwed to the hollow shaft having a square or rectangular channel type groove for providing the sliding motion to the associated close fit square or rectangular base respectively, of thickness slightly more than the groove height for gripping purpose of a bearing housing (8) member, which is firmly gripped on a fixed centre distance i.e., the distance of its centre to the central axis of the hollow shaft, by providing the screws of a cover plate (9) on the said base plate (7); the said bearing housing is a cylindrical extension, from its rectangular base, which supports the bearing by holding firmly the outer races or surfaces to provide the rotatable means to the spindles (10) in upper and 17 in lower variable centre distance attachments) at both the ends; the said spindles are connected, through the holes i.e., cutouts in said base plates (7) and cover plates (9) (of the variable centre distance attachment), by two universal joints (18) and an interconnecting shaft, the said spindle assembly (E) with universal joints, known as cardan drive, passing through the hollow shaft (1) transmits the rotary motion which is generated in lower spindle by mean of epicyclic gearing (D); which comprises of an external gear (16) couple to the lower spindle by keying means, to mesh with an internal toothed gear (15) which is firmly fixed by means of screwing to the said reference housing (3) when the internal gear axis coincides with the hollow shaft axis i.e., central axis ( $X_0X_0$ ), the lower variable centre distance attachment (C) acts as planet carrier and input of epicyclic gearing; with input by rotating the hollow shaft by the said worm gearing arrangement (A), giving the output motion through the lower spindle axis ( $X_0X_0$ ), with a transmission ratio fixed by the teeth number of said gear set of epicyclic gearing comprising external and internal gears, such that it becomes equal to the number of lobes of epitrochoidal profile to be generated on the job blank (11) which is mounted directly through its guiding pilot hole or through a fixture having the similar guide hole to the upper spindle (10), called as the job spindle, set at an eccentricity i.e., centre distance between the axis ( $X_0X_0$ ) of the job spindle and the central axis ( $X_0X_0$ ) by means of friction gripping by providing the collar (13) at the top of the blank and nut (12) as screwing means to the thread in the spindle against another collar (14) having the job blank in between, with the kinematics which provides a full rotation of the job about its own axis ( $X_0X_0$ ) while the job blank rotates about the hollow shaft axis ( $X_0X_0$ ), the number of lobes times, resulting in the generation of desired lobes by the removal of material by the cutter (6i or 6ii or 6iii) with its cutting edge moved towards the hollow shaft axis ( $X_0X_0$ ) in the case of

generation of an external profile and moved away from the hollow shaft centre in the case of generation of an internal profile, during successive cuts.



(Compl. Specn. 8 Pages;

Drngs. 2 Sheets)

Ind. Cl. : 129 F

Int. Cl. : B 23 C 5/22

#### AN EXCHANGEABLE MILLING/INSERT

Applicant : ISCAR LTD., OF P.O. BOX 11, DODAT  
TEFEN 24959 ISRAEL.

Inventors : 1. AMIR SATRAN, 2. YIRI MAN.

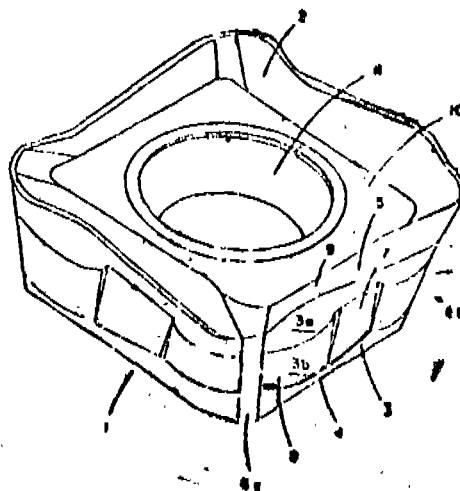
Application No. : 495/Cal/1993 filed on 27th August, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

8 Claims

An exchangeable milling cutter insert for mounting in a cylindrical milling cutter tool and comprising a substantially square plate (1), a substantially square upper face surface (2), side flanks (3) extending outwardly from respective side edges (4) of said base (1) and intersecting said face surface (2) at respective cutting edges (5) of said insert, each cutting edge (5) comprising first, second and third successive portions (5a, 5b, 5c) wherein said first and third portions (5a, 5c) extend respectively from adjacent corners of said insert so as to merge with said second portion (5b); said second portion (5b) constituting the major portion of the overall length of said cutting edge (5); said first portion (5a) sloping away from said base (1) towards said second portion (5b); said second portion (5b) sloping towards said base (1) away from said first portion (5a) and towards said third portion (5c) and said third portion (5c) sloping away from said base (1) away from said second portion (5b) and towards an adjacent corner (6a) of said insert; each side flank (3) comprising upper (3a) and lower (3b) angularly disposed side surfaces of which the upper (3a) constitutes a relief flank surface and the lower (3b) constitutes a locating portion; at least the relief angle of said relief flank surface (3a) in the region of a leading end substantially equals the relief angle in the region of the trailing end, all when measured with respect to the tool (16); wherein during cutting, the

first (5a) and second (5b) portions of a cutting edge cut an upright surface (19) of a substantially 90° recess in a work-piece with a third portion (5c) of an adjacent cutting edge (5) serving as a wiper for a base surface (20) of the recess at least the first and second portions (5a, 5b) of each cutting edge (5) being so located that all points thereon lie on a cylindrical envelope generated by a line (22) parallel to a rotary axis (21) of the cutting tool (16) and rotating with respect to the rotary axis (21) at a radius equal to the cutting radius of the cutting tool.



(Compl. Specn. : 15 Pages;

Drngs. : 4 Sheets)

Ind. Cl. : 81 A 1

Int. Cl. : A 23 L 1/118

#### A PROCESS FOR CO-EXTRUDING CEREALS WITH FILLING MASS TO PRODUCE PUFFED CRISP CEREALS PRODUCTS.

Applicant & Inventor : RAVI TANDON, OF 52, SYED AMIL ALI AVENUE, CALCUTTA-700 019, WEST BENGAL, INDIA.

Application No. : 1131/Cal/1997 filed on 16th June, 1997.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

4 Claims

A process for co-extruding cereals with filling mass to produce puffed crisp cereals product comprising :

Step 1.—pulverizing the raw material, corn rice, semoline, to 350—750 micron size,

Step 2.—sifting the said pulverized material individually to have the uniform size of the raw material,

Step 3.—blending the said raw material with cocoa powder, skimmed milk powder (SMP), salt & sugar in the following proportion in a batch of 300 kgs produce

Corn Grits	45—65 kg
Rice Grits	10—25 kgs
Semoline	10—25 Kgs
Sugar and optionally	0.5—4 kgs
SMP	0.5—1.0 kg
Salt	0.2—0.5 kg



Cl. : 27 C I

180615

Int. Cl. : E 04 G 21/00, E 04 C 2/00

**CONTINUOUS BUILDING MATERIALS MOULDING DEVICE.**

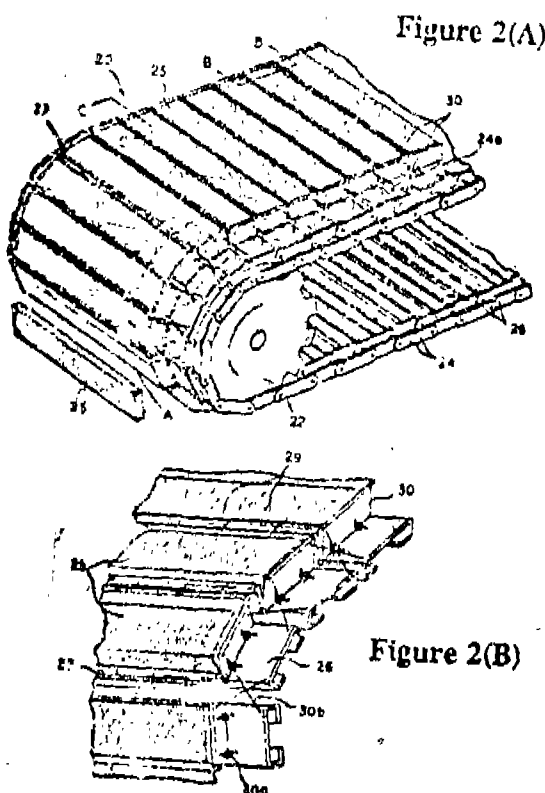
Applicant : & Inventor : KUN-HEE SŪH, OF CHANGMI APT. A-1407 40, YOIDO-DONG, YOUNG-DEUNGPO-GU, SEOUL REPUBLIC OF KOREA.

Application No. : 743/Cal/1993 filed on 2nd December, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

**28 Claims**

A continuous building materials moulding device comprising two pairs of drive sprockets (22) oppositely positioned at the inlet and the outlet of the device a pair of chain conveyors (24) wound on said drive sprockets (22) and defining a forming run between the drive sprockets, the chain conveyors having a connecting part (24a) on each of their links, a series of bottom plates (26) each of which is connected to opposite connecting parts (24a) of said links, wherein each bottom plate defines spaced sides, a side wall member(s) (27) pivotably connected to one of the sides of each said bottom plate to form a unit mould transversely, in such a manner that each side wall member is pivotable relative to the bottom plate between a forming position on the forming run of the chain conveyors and a release position at the outlet of the device, an end piece (30, 30') connected to each said bottom plate (26) to resiliently contact the ends of each unit mould end pieces being separated by wires (30b) such that said end pieces extend between the side wall members of each unit mould and are movable between a forming position and a release position so that the side wall members and end pieces are in their forming positions on the forming run of the chain conveyors and are movable to their release positions as the chain conveyors are moved about the drive sprockets to release engagement with a product formed in said unit mould.

**Figure 2(A)****Figure 2(B)**

(Compl. Specn. : 24 Pages;

Drgns. : 9 Sheets)

Cl. : 102 B

180616

Int. Cl. : H 05 B 7/00, 9/00

**HYDRAULIC DRIVE SYSTEM.**

Applicant : HITACHI CONSTRUCTION MACHINERY CO. LTD., OF 6-2, OHTEMACHI-2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. YUSAKU NOZAWA, 2. WATARU OOTSU, 3. NOBUHIKO ICHIKI, 4. KAZUYUKI INO, 5. HIROSHI MATSUZAKI, 6. KINYA TAKAHASHI.

Application No. : 61/Cal/1993 filed on 1st November, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

**10 Claims**

A hydraulic drive system comprising plurality of variable displacement hydraulic pumps and plurality of hydraulic actuators wherein first and second variable displacement hydraulic pumps (P1, P2) a first hydraulic actuator (B) driven by hydraulic fluids delivered from said first and second hydraulic pumps (P1, P2), a second hydraulic actuator (C) driven by the hydraulic fluid delivered from said second hydraulic pump, first variable restrictor means (RB1) for controlling a flow rate of the hydraulic fluid supplied from said first hydraulic pump to said first hydraulic actuator, second variable restrictor means (RB2) for controlling a flow rate of the hydraulic fluid supplied from said second hydraulic pump to said first hydraulic actuator, third variable restrictor means (RC) for controlling a flow rate of the hydraulic fluid supplied from said second hydraulic pump to said second hydraulic actuator, a first pressure compensating device (VB1) for controlling a differential pressure across said first variable restrictor means, a second pressure compensating device (VB2) for controlling a differential pressure across said second variable restrictor means, a third pressure compensating device (VC) for controlling a differential pressure across said third variable restrictor means, first delivery rate control means (41a) for controlling a delivery rate of said first hydraulic pump, second delivery rate control means (41b) for controlling a delivery rate of said second hydraulic pump, a coupling circuit (300) for joining the flow rate passing through said first variable restrictor means and the flow rate passing through said second variable restrictor means with each other and supplying the joined flow rate to said first hydraulic actuator, first sensor means (cb1) for detecting a pressure on the outlet side of said first pressure compensating device, second sensor means (cb2) for detecting a pressure on the outlet side of said second pressure compensating device, and third sensor means (cc) for detecting a pressure on the outlet side of said third pressure compensating device characterized in that :

said first and second pressure compensating devices (VB1, VB2) are connected to said first and second variable restrictor means (RB1, RB2) respectively at portions downstream thereof :

said first and second sensor means (cb1, cb2) are also connected to said first and second pressure compensating devices (VB1, VB2) respectively at portions on the outlet side thereof :

said coupling circuit (300; 212,22) is connected to said first and second pressure compensating devices (VB1, VB2) in a portion downstream thereof; and

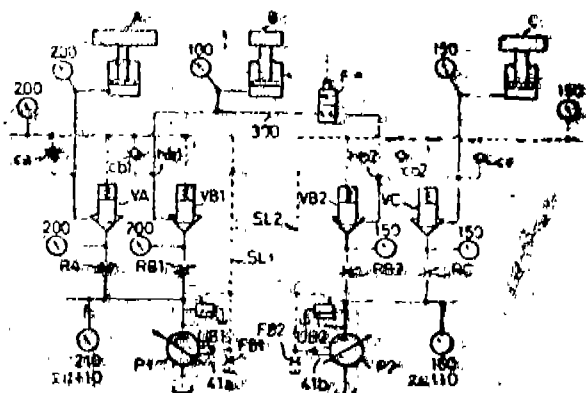
first signal pressure supply circuit (SL1) for supplying the pressure detected by said first sensor means, as a first signal pressure, to said first delivery rate control means, and

second signal pressure supply circuit (SL2) operated independently of said first signal pressure supply means for selecting higher one of the pressure detected by said second



sensors means and the pressure detected by said third sensor means and supplying the selected higher pressure as a second signal pressure to said second delivery rate control means.

FIG. 1



(Compl. Specn. : 64 Pages;

Drgns. : 6 Sheets)

Cl. : 83 A 1

180617

Int. Cl. : A 23 G 3/00, 3/28

# PREPARATION OF CONFECTIONS .

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, MUMBAI-400 020.

Inventors : 1. DAVID ROBERT GRAHAM COX, 2. STEPHEN RAYMOND MOORE.

Application No. : 1558/Cal/95 filed on 1st December, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

## 8 Claims

A method of preparing a suspension comprising ice crystals in a sugar solution, wherein a first solution of concentrated sugar having a sugar concentration above about 45% w/w and a second solution of less concentrated sugar having a sugar concentration below about 20% w/w or water are individually cooled to a temperature of from just above the metastable limit temperature of the respective solution to just above the melting point of the respective solution prior to mixing; providing that if one or both of the solutions is cooled to a temperature of from just above the metastable limit temperature of the respective solution to below the melting point of the respective solution, the respective solution is supercooled.

(Compl. Specn. : 12 Pages;

Drgns. : Nil)

Cl. : 32 B

180618

Int. Cl. : C 07 C 2/08

# PROCESS FOR PREPARING AROMATIC OLEFINS.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-65926 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. PROF. DR. WOLFGANG A. HERRMANN 2. JAKOB FISCHER, 3. MARTINA ELISON, 4. CHRISTIAN KOCHER.

Application No. : 1570/Cal/95 filed on 4-12-1995.

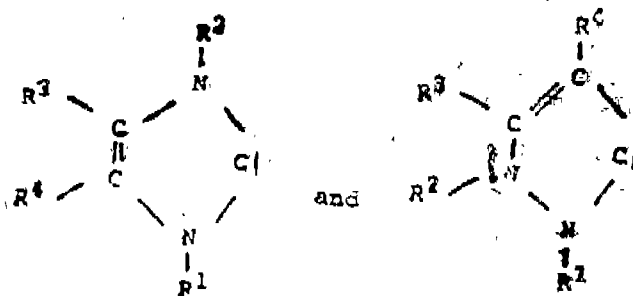
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

## 25 Claims

1. A process for preparing monofunctional, difunctional or polyfunctional aromatic olefins by reacting halo-aromatics with olefins, which comprises carrying out the reaction at temperatures of from 20 to 220°C in the presence of catalytic compounds, which correspond to the formula



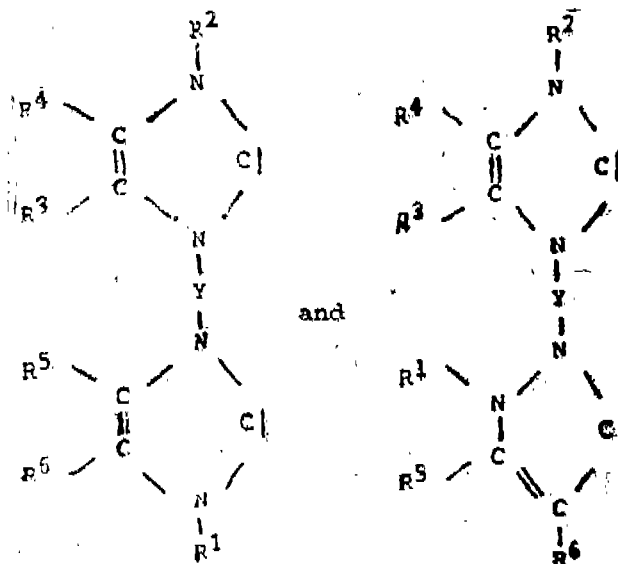
where X are monodentate or multidentate, charged or uncharged ligands bound to palladium as central atom and L, which are likewise bound as ligands to the central a.o.m, are monocarbene of the formulae



(II)

(III)

or dicarbene of the formulae



(IV)

(V)

where R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are identical or different, straight-chain or branched, sulfonated or unsulfonated alkyl radicals having from 1 to 7 carbon atoms, sulfonated or unsulfonated aliphatic monocyclic or polycyclic radicals having from 5 to 18 carbon atoms, sulfonated or unsulfonated alkenyl radicals having from 2 to 5 carbon atoms, sulfonated or unsulfonated aryl radicals having from 6 to 14 carbon atoms or sulfonated or unsulfonated arylalkyl radicals having from 7 to 19 carbon atoms, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> may also be hydrogen, R<sup>3</sup> together with R<sup>4</sup> and R<sup>5</sup> together with R<sup>6</sup> may in each case also be identical or different fused and sulfonated or unsulfonated radicals having from 3 to 7 carbon atoms, R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup> or R<sup>6</sup> can form a ring with ligands X, Y is a saturated or unsaturated,

straight-chain or branched alkylidene radical having from 1 to 4 carbon atoms or a dialkylsilylene or tetralkyldisilylene radical, A is a singly charged anion or the chemical equivalent of a multiply charged anion, b is an integer from 1 to 3, a is an integer from 1 to 4, b and c  $\neq$  0 or an integer from 1 to 4, b and n = 0 or an integer from 1 to 6 the said catalyst are used in amounts of from  $10^{-4}$  to 5 mol%, based on the aromatic halogen compound.

(Compl. Specn. : 29 Pages)

Cl. : 99 H

180619

Int. Cl. : A 45 C 13/10, B 65 D 43/00.

**COLLAPSIBLE CONTAINER FOR DISPENSING FLOWABLE SUBSTANCES.**

Applicant : RESEAL INTERNATIONAL LIMITED PARTNERSHIP, OF 425 EAST 58TH STREET, NEW YORK 10022, U.S.A.

Inventor : GREG PARDES.

Application No. 343/Cal/1989 filed on 5th May, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

8 Claims

A collapsible container for dispensing flowable substances and being displaceable between an expanded condition and a collapsed condition comprising wall means forming an enclosed space for holding the flowable substance wherein the improvement comprises that said wall means including a pair of generally rigid walls (2) having bordering edges, collapsible walls interconnecting a part of said bordering edges of said rigid walls, and a web (5) connecting the remainder of said bordering edges of said rigid walls, in the expanded condition of said container said rigid walls being in gradually diverging relationship extending from said web in the expanded condition of said container and said web affording pivotable movement of said rigid walls for placing said container in the collapsed condition, said collapsible walls being displaceable between the expanded condition and the collapsed condition, and in the collapsed condition said rigid walls are disposed adjacent to one another around said bordering edges and said container being in a flattened shape, and a part of said collapsible walls forming a base for said container with said rigid walls and said web extending upwardly from the base.

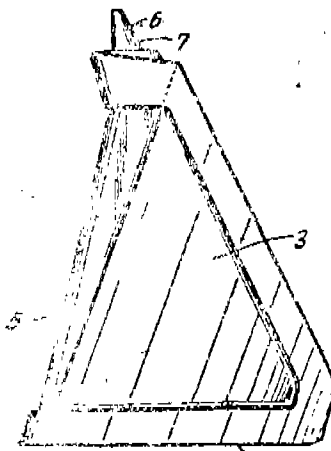


FIG. 1

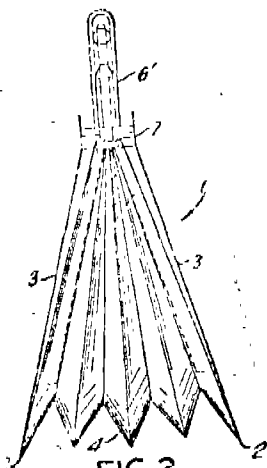


FIG. 2

(Compl. Specn. 10 Pages;

Drgns. 2 Sheets)

Cl. : 116 C

180620

Int. Cl. : B 65 G 17/00, 17/18, 15/00, 15/46.

**A POCKET BELT CONVEYOR.**

Applicant : SVEDALA INDUSTRI (DEAUTSCHYLAND) GMBH, OF AM STADTRAND 53-59, HAMBURG, D-22047, GERMANY.

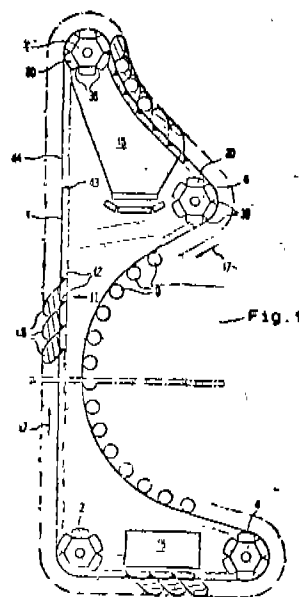
Inventor : GUNTHER NOLTE.

Application No. 403/Cal/1993 filed on 15th July, 1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

10 Claims

A pocket belt conveyor comprising an endless traction member guided around drive pulleys, deflector pulleys, and deflection pulleys and comprising at least two spaced apart supporting belts having between them a plurality of mutually spaced transverse members, further comprising pockets each formed with a bottom wall made of rubber-like material and extending between two adjacent transverse members wherein the transverse members have a planar fastening face which serves for attachment of the bottom wall and extends at an angle with respect of the supporting belt plane.



(Compl. Specn, 23 Pages;

Drgns. 10 Sheets)

#### AMENDMENT PROCEEDINGS UNDER SECTION-57

Request for amendment for change of claim portion of the specification in respect of Patent No. 176492 in the name of Hans Oetiker AG Maschinen-Und Apparatefabrik, Oberdorfstrasse 21, CH-8812 Horgen, Switzerland, a Company organized under the laws of Switzerland as advertised in the Part-III, Section-2 of the Gazette of India dated 3-5-1997 has no opposition within the stipulated period, the said amendments has been allowed.

The amendment proposed by Bonns Griffith Limited in respect of Patent Application No. 794/Del/1989 (176606) as advertised in part III section 2 in the Gazette of India on February 8, 1997 and no opposition been filed within the stipulated period, the said amendment have been allowed.

Request for amendment for change of address of the applicant and inventor in the name of Enzelhard Corporation, of 101 Wood Avenue, Iselin, New Jersey 08830, a corporation organized and existing under the laws of the State of Delaware, U.S.A. to Steven Mitchell Kuznicki in the application

for patent No. 177327 as advertised in the Part-III, Section 2 of the Gazette of India dated 16-6-1997 has no opposition within the stipulated period, the said amendment has been allowed.

Request for amendment for change of Complete Specification in the name of Asahi Kasei Kogyo Kabushiki Kaisha of 2-6 Dojimahama 1-Chome, Kita-Ku, Osaka-Shi, Osaka, Japan, a Japanese Joint Stock Company in the application for Patent No. 177348 as advertised in the Part-III, Section-2 of the Gazette of India dated 12-4-1997 had no opposition within the stipulated period, the said amendments has been allowed.

#### AMENDMENT U/S 78 (3) OF THE PATENTS ACT, 1970 IN RESPECT OF THE APPLN. FOR PATENT NO. 177661 (906/Cal/90)

In pursuance of leave granted u/s 78(3) of the Patents Act, 1970, the Controller's Power has been vested in respect of the appln. for Patent No. 906/Cal/90 (177661) for the necessary correction as per written order issued by the Controller respectively on 23-12-97 and 02-01-98.

Necessary correction as follows :—

"In the complete specn. Page 4, after Para No. 5 (numerically) and beginning the Para No. 6 of the following should be incorporate. "The subject matter of the present invention namely a method of producing modified carbonyl hydrolax does not fall within the category of food, drug or medicine".

#### CESSATION OF PATENTS

161208	161286	161294	161326	161331	161335	161394
161399	161404	161461	161487	161534	161551	161582
161591	161607	161610	161614	161634	161711	161726
161730	161746	176576				

#### RENEWAL FEES PAID

166564	170573	171689	172931	169130	166297	166507	166675
174577	174972	172932	166508	172822	169931	168886	168439
168097	174745	174736	168686	170360	172813	172446	172447
175540	163505	163426	172229	166608	173311	172829	175539
170526	170527	170359	169629	170515	173680	173679	163349
163350	175371	176659	172131	167255	168095	166673	176783
173141	169165	170684	172479	173649	170519	166566	170419
166526	175819	164622	156591	163785	166952	168697	174581
170429	163206	168749	170785	169196	173073	163922	174437
170424	170518	173531	173914	173916	173678	176643	177851
177852	177853	177854	177855	177856	177857	177858	177859
177892	177893	177896	177897	177899	177900	177942	177946
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177836	177837	177838	177839	177840	173727	175380	172237
177752	177759	170154	171967	177308	173721	170551	170562
170399	169178	175372	173818	172801	173142	173121	175811
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175087	175077	174438	173702	176744	163752	173110	173833
175417							

#### PATENT SEALED ON 23-01-98

174316	177395	178422*	178485*D	178641	178642	178643
178644	178645*	178646	178647	178649	178651	178653
178654	178655*	178656	178658*	178659*D	178660*D	
178661	178662*	178663	178664	178665	178666	178667
178668*	178669	178670				

CAL—23, DEL—07, MUM—Nil, CHEN—Nil

\*Patent shall be deemed to be endorsed with words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 1. No. 173646, Larsen & Toubro Ltd., an Indian company having its registered office at L & T House, Ballard Estate, Mumbai 400001, Maharashtra, India, "A Moulded Case Circuit Breaker", 16th April 1997.

Class 1. No. 173698, Himat Industries, 49, Daba Road, Via G. T. Road, Ludhiana, Punjab, India, an Indian partnership firm, "Foot-Rest for Bicycle", 28th April 1997.

Class 3. No. 173628, M/s. Time Appliances Pvt. Ltd., a company, read, in India under the Indian Comp. Act, 1956, having its regd. office at A 27, Kiran Industrial Estate, M. G. Road, Goregaon (W), Mumbai 400062, Maharashtra, India, of above address, "Chutney Attachment Lid Cover", 11th April 1997.

Class 3. No. 173622, Pearl Polymers Ltd., 704, Rohit House, 3, Tolstoy Marg, New Delhi 110001, India, an Indian company registered under the provisions of Indian Companies Act, 1956 of the above address, "Water Jug Without Cover", 11th April 1997.

Class 3. No. 173623 to 173625, Pearl Polymers Ltd., 704, Rohit House, 3, Tolstoy Marg, New Delhi-110001, India, an Indian company registered under the provisions of Indian Companies Act, 1956 of the above address, "Bottle Without Lid", 11th April 1997.

Class 3. No. 173626 to 173627, Pearl Polymers Ltd., 704, Rohit House, 3, Tolstoy Marg, New Delhi-110001, India, an Indian company registered under the provisions of Indian Companies Act, 1956 of the above address, "Jar Without Cover", 11th April 1997.

Class 4. Nos. 173603, 173605 to 173613, McNROE Chemicals Pvt. Ltd., of 3/8, Nemai Bose Lane, Calcutta 700006, W. B. India, an Indian company, whose directors are Narender Kumar Daga and Vishwajit Sarda, all Indian of the above address, "Hottle", 10th April, 1997.

Class 4. No. 173692, Pedder & Pedder Tiles Ltd., having office at 603, Keshava-Bandra-Kurla Complex, Bandra (E), Mumbai 400051 Maharashtra, India, "Tile", 25th April 1997.

Class 4. No. 173684, Anchor Sanitaryware Pvt. Ltd., Main Road, Thangadh 363530, Gujarat, India, "Pedestal", 22nd April 1997.

Class 4. No. 173680 to 173683, Anchor Sanitaryware Pvt. Ltd., Main Road, Thangadh 363530, Gujarat, India, "Wash Basin", 22nd April 1997.

T. R. SUBRAMANIAN,  
Controller General of Patents, Design & Trademarks.

प्रबन्धक, भारत सरकार मुद्रणालय, फरोदाबाद द्वारा मुद्रित  
एवं प्रकाशन नियन्त्रक, दिल्ली द्वारा प्रकाशित 1998

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